

BA after BSc ^{+ 11} pages 222 also Book 9 page 1



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Minutes of the 439th meeting of the Council of the Faculty of Arts and Science held in the Senate Chamber on Monday, October 6, 1952 at 4:30 p.m.

Present were: Dean Johns, in the Chair; Professors Nichols, Collins, May, Spearman, Clare, Greene, Whyte, J.W. Campbell, J.D. Campbell, Collier, Rees, Tuba, Miss Patrick, Miss McIntyre, Miller, Moore, Eaton, Davis, Miss Duggan, Stelck, Folinsbee, Faucher, Ryan, D.E. Smith, Newbound, Harris, Walker, Strickland, Glyde, Grayson-Smith, Orchard, Mardiros, Blackley, Salter, Mayo, Hanson, Keeping, Scargill, Morrison, Scott, Cook and Mr. Taylor.

The Chairman introduced Mr. F. D. Blackley of the Department of History as a new member of Council and mentioned that he had just completed the oral examination for the Ph. D. degree from the University of Toronto.

Since the lists of graduating students, which made up the greater portion of the minutes, had been circulated last May, the Chairman read only those sections of the minutes that dealt with other business. It was moved by Dr. Morrison, seconded by Professor Salter that the minutes be approved. Carried.

1. Report of the Summer Session Revisions Committee - presented by Mr. Blackley.

The following students have satisfied the requirements for the degree of Bachelor of Arts:

Evans, Stuart Alexander
Glover, Audrey Winifred
Hennig, Henry Philip
Miklos, Frank
Peterson, Frank Wilmer
Richmond, Stewart Arthur

The following students have satisfied the requirements for the degree of Bachelor of Science:

Baydala, Ladymir Walter
Bice, Patricia Eleanor
Lachance, George Albert
Layton, Laurie Richmond
McFaul, Arthur George
Olinyk, Nickol

The following students failed to meet the requirements for the degree of B. A.:

Maginley, Margaret Lillian: failed Chemistry 40 (37%)
 Wensel, Martha: needs one second
 Kabayama, Yoshiomi: needs two seconds

The following students failed to meet the requirements for the degree of B. Sc.:

Antonenko, Peter: did not complete Christian Apologetics,
 needs one second
 Imeson, Joseph Dale: needs two seconds

The following students have been granted supplementals as specified:

Baranyk, Peter J.: French 2
 McLean, Stanley M.: Classics 57
 Mealing, Geoffrey N.: Mathematics 45
 Vance, Montez: Physics 1

Special Case

Sorum, Lorang:

It was recommended by Professor Salter of the Department of English that this student should not be permitted to re-enter English 2. He was offered special tuition to help him to clear the course but did not meet his tutor. He did not present himself for the final examination.

Respectfully submitted,

J. Macdonald (Convenor)
 E. Phibbs
 F. D. Blackley

It was moved by Mr. Blackley, seconded by Professor Keeping that the above report be approved and that the names of graduating students be recommended to General Faculty Council for their degrees.

With reference to the case of L. Sorum, Professor Salter outlined the background for the benefit of Council members who were in some doubt as to whether to approve the recommendation concerning his admissibility to English 2. Mr. Sorum was a Norwegian student who had done rather good work in the first year of the B. Commerce course but who had failed English 2 in that year. He had repeated the course in his second year and had failed it and had been warned that he must remove this deficiency at the 1952 summer session. At this summer session, the student was given the opportunity of special tutoring but failed to take advantage of it and did not present himself for the examination. Because of this situation, the Summer Session Revisions Committee, on the recommendation of Professor Salter, gave the ruling in question. Dr. Cook felt that there were certain extenuating circumstances in this case and informed Council that Mr. Sorum had been in a rather serious car accident during the summer which had necessitated his missing a good part of the course. The student claimed to have wired his instructor but Professor Salter stated that he believed no such wire had been received. Dean Johns informed the Council that the student was not registered this fall, although he had been sent a letter permitting him to re-enter on the strength of a letter of undertaking received by the Dean. It had been made clear to Mr. Sorum that he would be expected to fulfil all requirements of English 2 and to attend to all assignments given him promptly. If this were not done, the University might require him to withdraw. The Chairman added that Mr. Sorum was not at present registered in the University at all.

Mr. Blackley then moved, seconded by Professor Keeping, that Council approve that portion of the report dealing with graduating students.

Carried.

4

2. Report of the Revisions Committee on September Supplementals - presented
by Dr. Davis

The following students have satisfied all requirements for the
degree of Bachelor of Arts:

Free, Marjorie Anne
Klufas, Harry
Mack, Ernest Arnold
Sheehan, Mary Louise
Wenaas, Carroll Jerome (Honors Political Economy)

The following students have satisfied all requirements for the
degree of Bachelor of Science:

Cormack, David
Cuyler, John David P.
Juba, Victor Orest
Kates, Sydney Max
Kruger, Oscar Harold
Leslie, Gordon Anthony
McGhee, Lois Lucille
Mason, Robert James
Sawicki, Robert Norman
Stevens, Stanley Lynn

The following students have satisfied all requirements for the
degree of Bachelor of Commerce:

Aboussafy, Edmund Paul
Ensch, John William
Montgomery, Lawrence Hugh

The following students failed to meet requirements for their degrees:

For the degree of B.A.: Kabayama, Yoshiomi - needs one second

For the degree of B.Sc.: Bilton, Glenn Ronald - one failure
Evans, Ralph Gordon - two failures
McLeod, Malcolm Ewen - one failure, needs
one second
Mandryk, Harry - one failure, needs one
second
Sigal, Simon Julian - one failure,
needs one second
Thomassen, Henry - one failure, needs
two seconds

For the degree of B. Com.: Whyte, Charles Andrew - needs two seconds

It was moved by Dr. Davis, seconded by Dr. Newbound, that the above report be approved and that the names of graduating students be sent forward to General Faculty Council. Carried.

3. Four-course Third Year

The Chairman read a list of names of those students who had obtained an average of 75% or better and at least four seconds in the second year of their pass B.A. or B. Sc. It was noted that the majority of these students had registered in five courses, although they were entitled to take only four.

Beamish, William E. (B.Sc.) - admitted to Medicine
Edgar, Tannis M. (B.A.) - registered in five courses
Graham, William M. (B.Sc.) - registered in five courses
Harvey, Gwendoline L. (B.A.) - registered in five courses
Holsworth, Rosemary (B.A.) - registered in five courses
Hrynyk, Rita E. (B.A.) - registered in four courses
Komhyr, Walter D. (B.Sc.) - registered in five courses
Kutney, James P. (B.Sc.) - registered in four courses
Orr, Patricia F. (B.Sc.) - registered in four courses
Suter, Frances A. (B.A.) - registered in four courses

4. Special Cases

(a) Rae, Donald A.

Dr. Davis presented the case of Mr. Rae who was requesting that Philosophy 2, taken in the first year of the Pre-dentistry course, be counted as a senior B course to fulfil that requirement in the third year of the B. Sc. Mr. Rae had not been admitted to Dentistry and had transferred to the pass B.Sc. (Physics pattern). If this concession were made, the student would meet the requirements for his degree next spring by taking a five-course program this year. The mark obtained in Philosophy 2 was 51%. In view of the student's over-all record (below a second class), it was recommended by the Revisions Committee that he should not be given this privilege and should be required to take another senior A or B course.

It was noted that History 4, taken in the first year, was being counted as the open option of the third year.

Dr. D. E. Smith informed Council that, in his opinion, the content of Philosophy 2 was sufficiently similar to that of Psychology 51, a senior course, to be considered adequate as a senior B option in the third year. He moved, seconded by Professor Mardiros, that the student's request be granted.

The motion was carried by a vote of 15 to 14.

(b) Savaryn, Peter

Mr. Savaryn, a displaced person, had put in a very good first year in the Modern Languages pattern and was now asking permission to be transferred to the second year of the combined course, B.A.II.B., which would involve his taking six courses this year. Mr. Savaryn's average in his first year was 76%. In view of his record and the fact that he is a married man and a mature student, it was moved by Dr. Davis, seconded by Dr. Newbound, that his request be granted. Carried.

(c) Stefanik, George

This student was registered in the second year of the combined course, B.Sc.,M.D., in 1949-50. He failed Entomology 42, a half course, with a mark of 45% and also failed the supplemental. His average for the year, including the failed course, was 72%. The Revisions Committee had requested the Department of Entomology for approval to raise the supplemental mark to 50% but the request had been refused. The student was now in the second year of Medicine and was interested in his status with regard to the B.Sc. degree. In view of his otherwise excellent record, it was agreed that it was within the power of this Council to meet this problem by raising the mark to 50% in spite of

the fact that the mark had already been published. It was moved by Dr. Davis, seconded by Dr. Newbound, that the mark be raised to 50% and that the student be considered eligible for a B. Sc. degree on the satisfactory completion of the second year in the Faculty of Medicine. Carried.

(d) Mack, Ernest A.

This student had completed three years in the Honors course in Psychology and was now asking for a pass B. A. degree since he had decided to complete Pre-medical requirements and apply for admission to Medicine. He had the required number of second class standings and also had the required number of science options in his program. It was moved by Dr. Davis, seconded by Dr. Newbound, that his request be granted. Carried.

(e) Kryskow, E. J. C.

Mr. Kryskow had been in the combined B.Sc., M.D. course and had put in two years in the Faculty of Medicine but had been required to withdraw from that Faculty. He was now interested in completing the requirements for his B.Sc. degree. In view of the fact that he was only one course short of completing second year Medicine and had the necessary number of second class standings, it was moved by Dr. Davis, seconded by Dr. Newbound, that he be required to complete one senior A or B option for his B.Sc. degree. Carried.

5. Accounting 1

It was pointed out to Council that there were a number of students transferring from the B.A., LL.B. course and from the B. Com. to the B. A. course who were being required to make up a junior C Division course because they were being denied credit in Accounting 1 in their first year.

It was felt by the Dean and by the Revisions Committee that this course should be accepted in lieu of a laboratory science or mathematics course of the first year in cases of transfer to the B. A. program only. The course would not be thrown open to regular B. A. students. It was moved by Dr. Davis, seconded by Professor Keeping, that Accounting 1 be accepted as a C Division credit for students transferring to the B. A. from either the B.A.,LL.B. or the B. Com. Carried.

6. October Supplementals

The Chairman called for a motion that the Revisions Committee be empowered to report to General Faculty Council the names of those students who completed requirements for their degrees by writing October supplementals. It was moved by Dr. Scargill, seconded by Dr. Harris, that this be done. Carried.

7. New Appointments to the Committee on Honors

The Chairman called for approval of the addition of the names of Dr. D. E. Smith and Dr. D. M. Healy to this committee to replace Dr. Macdonald and Dr. Owen. Agreed.

8. Motion from the School of Household Economics

In view of the resignation of the instructor in Hygiene, it was moved by Miss Patrick that:

subject to the approval of the School of Household Economics, Hygiene 51 be dropped from the course for students in the degree courses in Household Economics and that the hour per week for one term be added to Household Economics 64.

The motion was seconded by Miss McIntyre. Carried.

9. Other Business

Koroluk, W. - As a result of a question by the Chairman as to whether Mr. Koroluk was attending classes or not, it seemed evident that he was not attending regularly.

R.C.A.F. Band Concert - The Dean announced that a band concert would be held by the Tactical Air Group of the R.C.A.F. on Tuesday, October 7. An invitation had been extended by the University Squadron of the R.C.A.F. to all Faculty members.

Royal Society of Canada Research Scholarships - It was announced by the Chairman that two types of research scholarships during the year 1953 would be available to Canadian scholars for advanced work: post-doctoral scholarships of \$2,500 in any branch of science or literature; pre-doctoral scholarships at \$1,500 each in the humanities. Further details could be obtained from the Dean's Office.

The question of displaced persons and their ability to use the English language was raised by Professor Salter. Last spring, it was decided that students presenting credits from foreign universities should be required to write the Grade XII language paper before being admitted to the University. The Department of Education had agreed to administer the examination, but this fall, Miss Robertson of the Department of English had been called on to mark the papers of some such students. Professor Salter felt that if the Department of Education was not willing to look after this, the Department of English would prefer to set its own paper, since he felt it was unsatisfactory to have University instructors marking a paper set by the Department without knowing the basis of marking. It was explained by the Chairman that this fall there were some late applicants

and although the Department of Education supplied the papers, it was felt that a University instructor could decide better than anyone else whether the students were eligible for admission. Mr. Taylor stated that the Department of Education did examine a number of candidates in June and in August.- It was only after these examinations were over that the Department turned over some old papers to the University for those people applying late.

In reply to a question, the Dean stated that if these students were found incompetent in English, they were asked to study English further in high school or by correspondence and then to re-apply. If they were able to improve their English and cope with the examination, they would then be admitted to the University. With regard to graduate students from a foreign country, their ability to use English was also investigated before they were admitted.

Mr. Taylor expressed his appreciation to members of Council who had provided help during registration week.

The meeting adjourned at 5:35 p.m.

Walter H. Johns.

Dean

November 3, 1952

Minutes of the 440th meeting of the Council of the Faculty of Arts and Science held in the Senate Chamber on Monday, November 3, 1952 at 4:30 P.M.

Present were: Dean W. H. Johns, in the Chair; Professors Clare, Spearman, Collins, Salter, Greene, Patrick, McIntyre, Scargill, Scott, Grayson-Smith, Tuba, Collier, May, Hardy, Mardiros, Moore, D. E. Smith, J.W. Campbell, Warren, Blackley, Morrison, Davis, Cormack, Jones, Ryan, Glyde, Keeping, Walker, Gowan, Newbound, Stelck, Hanson, Mayo, Moss and Mr. Taylor.

On a motion of Dr. Tuba, seconded by Dr. Collier, the minutes of the previous meeting were approved and signed.

1. Lorang Sorum

The Chairman announced that Mr. Lorang Sorum has now been registered and it was hoped that his course would proceed without interruption.

2. New Courses for the Current Session

Dr. D. E. Smith informed Council that there were two graduate students in Psychology this year with two completely different programs requiring them to take two different conference courses. He moved that the two courses, Psychology 113, Seminar in Industrial Psychology (3 hours), and Psychology 114, Seminar in Personality Theory (3 hours) be added to the new courses in the calendar and that registrations in these courses be approved for this session. Seconded by Professor Mardiros. Dean Johns stated that this practice of identifying conference courses by specific numbers was customary. Carried.

3. Calendar Changes

(a) B.A. and B.Sc. after B.Ed.

To be revised to read:

"Students who have qualified for the degree of B.Ed. may proceed to the degree of B.A. or B.Sc. If they have met the matriculation requirements of the Faculty of Arts and Science and have

completed thirteen Arts and Science courses, they will be required to complete six approved senior courses in the Faculty of Arts and Science with at least second class standing in four of these courses. Students with incomplete matriculation for Arts and Science will be required either to remove these deficiencies or to secure credit in University courses of an equivalent standard. Students who have credit in fewer than thirteen Arts and Science courses may be required to complete additional courses. Students proposing to secure the B.A. or B.Sc. in this manner will be expected to select their subjects in conformity with one of the standard Arts and Science patterns and are advised to consult the Dean of the Faculty of Arts and Science about their programs."

The Chairman explained that there was really nothing new in the statement before Council. It was simply a matter of inserting in the calendar a statement that would make it clear what the requirements for a B.A. or a B.Sc. after the B.Ed. would be. It was moved by Dr. Davis, seconded by Professor Salter, that the statement be approved. Carried.

(b) B.A. Patterns

The Chairman stated that the Revisions Committee examined the science prescriptions for the B.A. patterns and were recommending that the statement be revised to read as follows:

"B.A. students must select three C Division courses which must include at least one biological science and one physical science or mathematics. A student may not include both Biology 41 and Botany 1 or Zoology 1 in his program, nor may he include both Physical Science 41 and Chemistry 1 or 40, or Physics 1 or 41. The Division C course for the First year should be one of: Botany 1, Zoology 1, Chemistry 1, Chemistry 40, Physics 1, Physics 41, Mathematics 40, Mathematics 45, Entomology 41, Geology 1.

For the Second year: any of the above or a second course in which the first year choice was taken, or Biology 41 or Physical Science 41.

For the Third year: any of the above.

After some discussion, it was moved by Dr. Davis, seconded by Dr. Newbound, that the statement above be approved. Carried.

At this point, Dr. Hardy informed Council that a new senior High School Handbook had been published by the Department of Education concerning the new matriculation requirements. The publication seemed to make it clear that two of the provisos laid down by the University, in reducing the two language courses from three years to two, were not being fulfilled by the Department of Education. Oral French was not being expanded to Grades VII and VIII as was agreed upon by the Co-ordinating Committee, and the elective, General Languages, which was to have been offered to Grade X students as an introduction to the study of foreign languages, was not being established. He mentioned that the new requirements did, however, increase the amount of English taken from 15 credits to 21 and further, that an additional 3 credits in English could be taken as an elective in Grade XII. He asked Council this question: If a student presented the extra three credits in English, could he be excused the compulsory English 2 of University?

The Chairman pointed out that this question probably would not arise for another two or three years, and Dr. Hardy stated that he would raise the question again.

(c) B.Sc. Patterns

(1) Special A or B Courses for B.Sc. Students: To be revised to read:

"In the second and third years, students are required to select one from each of the following lists:

List I

Phil 51 or 54
Classics in English 50 or 51
or Classics 54
Old & New Testament Lit.
Any senior foreign lang. course
Any senior English course
Any senior course in Fine Arts

List II

Pol.Ec. 61 or 65
Pol. Science 63
Phil 52
Psych. 51 or 57 or 58
Anc. History 52, 53 or 56
Any senior History

The Chairman called attention to the slight revision of wording in the listing of the above courses. He explained that the practice in the past had been for some B.Sc. students to take two of the A Division courses or two of the B Division courses. The intention was that one from each side should be selected. The Revisions Committee hoped that, by setting the list out as above, they would make it clear to students that one course was to be taken from each side. It was noted that Philosophy 51 and 54 were included on the A side as it was felt that they belonged with the humanities rather than with the social sciences.

There followed considerable discussion on the validity of the distinction between humanities and social sciences and whether or not students should be restricted to one of each. The Chairman reminded Council that the original intention of the patterns committee was that by selecting one of each, students would get a broader acquaintance with courses in the liberal Arts.

It was moved by Dr. Davis, seconded by Dr. Scargill, "that the statement of Special A or B courses as listed above be approved and that written permission from the Dean's Office must be obtained for any variation from the above prescription". Carried.

(ii) Experimental Psychology

Dr. D. E. Smith moved that the following changes in the pattern statement for Experimental Psychology be approved. Seconded by Professor Mardiros.

First Year: After "Chemistry 40" add "or 42"
Delete "Mathematics 45" and substitute "Mathematics 40
or 45 or Physics 40 or 41".

Second Year: Delete "Philosophy 52" and substitute "A Philosophy course". Add "52" before "57".
 Delete "Physics 1 or 41" and substitute "Mathematics 40 or 45, or Physics 40 or 41".
 Delete "Mathematics 40 or Chemistry 42" and substitute "An approved option from Division C".
 After "Entomology " add "Genetics"

Third Year: Delete "Philosophy 52" and add "Psychology 52".

It was noted that Physics 40 was being left in the second year for those students who had taken Mathematics 40 in the first year and wished to take Physics 46 later.

Carried.

(iii) Geology

Dr. Warren moved ~~that~~ of Council to permit certain students in the third year of the Geology pattern to choose an extra Geology course ~~in 1953~~
 as the open option. ^{Seconded by Prof. Hanson} The reason for this request was that many pass Geology students were going out into the field calling themselves geologists without adequate background in Geology. Giving them an opportunity to take an extra senior Geology course in the third year would not only widen their training but enable them to return better prepared for a post graduate year. Several students were interested in returning for an extra year, although they were not interested in proceeding to a master's degree, nor were they, in many cases, of the calibre required for master's work. The privilege would only be given to students with an average of at least 60% for the first two years.

In the discussion which followed, it was agreed that such a move would encourage professionalism in a pass course, which was to be deplored. Dr. Walker stated that, in his committee for reviewing patterns last year, the majority of the members were agreed that a pass course should give some

form of general education and that a student should not be able to obtain as many courses in the subject of concentration as he could if he were in the Honors course. He felt that if Geology were allowed to have this privilege, other departments would be requesting it also.

It was finally agreed to take Dr. Warren's request as a notice of motion for the next meeting to enable other departments to examine the implications.

(iv) Physics

Dr. Grayson-Smith moved that Physics 54 be dropped from the third year of the pattern prescription and that on Page 131 of the composite calendar, Mathematics 42 be changed to read Chemistry 42.

Seconded by Dr. Newbound. Carried.

(d) B.Sc. in Engineering Physics

The Chairman informed Council that Dean Hardy of the Faculty of Engineering had asked that the statement concerning Engineering Physics in the Arts and Science calendar be deleted as it contained inaccuracies and really should not appear in that calendar at all. Dean Johns suggested that this be done and that a note be added to the Department of Physics Honors prescription to read:

"Students interested in the B.Sc. degree in Engineering Physics should consult the Dean of the Faculty of Engineering".

It was moved by Dr. Grayson-Smith, seconded by Dr. Scott, that the present statement in the calendar be deleted and the above note be added to the Department of Physics Honors prescription. Carried.

(e) Honors Programs

(i) Department of Philosophy & Psychology

Dr. D. E. Smith read a complete new prescription for Honors in this department and moved its adoption, seconded by Professor Mardiros.

In view of the length of the material involved, Professor Salter moved that the motion be tabled until the next meeting and that mimeographed copies of the material be available for members of Council. Seconded by Dr. Walker. Carried.

(ii) Biochemistry

It was moved by Dr. Collier, seconded by Dr. Tuba, that Biochemistry 71 be deleted from the Honors prescription and replaced by an option. Carried.

(f) Combined Programs

(i) B.A., B.Sc. in Engineering

The Chairman stated that he had discussed the prescription for this course with the Dean of the Faculty of Engineering, and the following changes were recommended:

In the Preamble, 60% to be revised to read 65%.

Second year revised to read:

A student may not enter the second year of this combined course unless he has completed the first year with an average of at least 65%.

One course from Division A; one course from Division B; a further course from Division A or B; one of: Mathematics 45, 43, 53, Chemistry 42; Physics 21; C.E. 10, C.E. 5 and 6.

A student who takes Chemistry 42 at this stage and later enters Chemical Engineering will be required to substitute another senior C course for Chemistry 42 in the second year of Chemical Engineering.

Third year revised to read:

One course from Division A; one course from Division B; a further course from Division A or B in the division already selected in the second year; Mathematics 41; Drawing 2 and 4.

The B.A. degree may be granted at the end of the third year to a student who has satisfactorily completed the above prescription and has satisfied the requirements of the Faculty of Arts and Science concerning second-class standing.

Delete last paragraph of prescription.

Dean Johns mentioned that, in view of the very few students who take advantage of this course, consideration might be given to its being dropped altogether. The Dean of Engineering had suggested that a student spending six years in University would, perhaps, be better advised to take a four-year Engineering course and a two-year post graduate course.

It was moved by Dr. Scott, seconded by Dr. Warren, that the course be deleted.

Both Dr. Gowan (himself a graduate in this course) and Dr. Walker spoke in favor of retaining the course since the general trend was to provide more liberal Arts courses in Engineering curricula. They felt that there would be little chance of liberalizing the course on a master's level.

The motion was defeated.

It was then moved by Dr. Grayson-Smith, seconded by Dr. Gowan, that the suggested changes in the B.A.,B.Sc. Engineering prescription be approved. Carried.

(11) B.A.,LL.B.

In view of the changes made last year in the Faculty of Arts and Science regarding second-class standing, the statement below was recommended for the B.A.,LL.B. combined course:

"Students in this combined course are required to secure second class standing in four courses, two of which must be in the second year, before promotion to the third year of the combined course is permitted."

Also, the second sentence in the first paragraph under Second Year is to be deleted.

It was moved by Dr. Davis, seconded by Dr. Scargill, that the change be approved. Carried.

It was agreed to postpone further calendar changes until the December meeting.

4. Special Cases

Since this item would likely prove controversial, it was agreed to postpone it until the next meeting because of the lateness of the hour.

5. Other Business

(a) Appointment of Dean as Chairman of Committee on Honors

Professor Salter moved, seconded by Dr. Campbell, that Dean Johns be appointed to the Committee on Honors and serve as Chairman. Carried.

(b) December Examinations

Mr. Taylor asked all departments who wished consolidated examinations at Christmas to inform the Dean's Office before November 13 so that a schedule could be drawn up. Dean Johns distributed forms to the Departments of English, Botany, History, Chemistry, Physics, Mathematics and Classics and asked that they be returned to his office.

The meeting adjourned at 6:10 p.m.

Walter H. Johns.

Dean

December 1, 1952

Minutes of the 441st meeting of the Council of the Faculty of Arts and Science held in the Senate Chamber on Monday, December 1, 1952 at 4:30 p.m. Present were: Dean Johns, Chairman; Professors Ryan, Collier, Healy, Greene, D. E. Smith, Collins, Duggan, Mardiros, Moss, Cormack, Salter, Glyde, Scargill, Morrison, Stelck, Eaton, Moore, Scott, Harris, Grayson-Smith, J. W. Campbell, Miller, Whyte, Walker, Mayo, Strickland, Jones, Blackley, Davis, Folinsbee, Patrick, Rees and Mr. Taylor.

The Chairman drew attention to a change in the minutes of the previous meeting. Page 3, Item iii - Geology: the first sentence is changed to read: "Dr. Warren moved that Council permit certain students in the third year of the Geology pattern to choose an extra Geology course as the open option. Seconded by Professor Hanson."

It was moved by Dr. Grayson-Smith, seconded by Dr. Moss that, with the above changes, the minutes be approved. Carried.

1. Open Option in Third Year of B. A. and B. Sc. Patterns

The Chairman called to the attention of Council an anomaly in the general course regulations in the Faculty of Arts and Science. One regulation sets a limit of five courses in any one department over the three years of the ordinary pattern and a limit of two courses from any one department in any one year. He quoted a minute from the meeting of January 14, 1949 having to do with the open option of the third year, which permitted a student to select any course for that option -- junior, senior, science, mathematics, or a course from the A or B Division -- and which, in fact, permitted a student to select a further course from the department of his concentration. The Chairman felt that this conflict should be resolved.

December 1, 1952

After considerable discussion, during which it was pointed out that Dr. Walker's Committee on the Patterns had recommended adherence to the five-course rule, it was moved by Professor Jones that the fifth course in the third year be a completely open option. The Dean suggested that, in that case, there should be a motion to amend the statement on Page 125 of the composite calendar limiting students to five courses from any one Department. Dr. Grayson-Smith expressed willingness to second Professor Jones' motion if he would agree to say "not more than three courses should be taken from any one department in the third year".

Professor Jones amended his motion to read: "in special cases, the Dean may permit a student to take three courses in one department in the third year, making a total of six over the three years". Seconded by Dr. Grayson-Smith. Carried.

Dr. D. E. Smith raised the question of taking two courses from the same department in the first year of the pattern, for example, Philosophy 1 and Psychology 2. The Chairman stated that Council had already approved this practice in the case of double departments such as Political Economy and Political Science, French and German, etc.

Dr. Smith moved "that in the case of a double department, the Dean might permit seven courses rather than the six which are now allowed". Seconded by Professor Mardiros. Carried. Dr. Smith pointed out that this would appear as a minute but not necessarily as a statement in the calendar.

Because of the passing of the above motions, the Department of Geology did not feel it necessary to pursue further the taking of a sixth course in Geology.

2. Honors Program in Psychology and Philosophy

Degrees with Honors from this Department will fall into these groups:

- (1) B. A. with Honors in Philosophy and an approved minor subject;
- (2) B. A. with Honors in Philosophy and Greek;
- (3) B. A. with Honors in Psychology and an approved minor subject;
- (4) B. Sc. with Honors in Psychology and an approved minor subject from Division C.

There are several possible programs within each of these groups, and more detailed information is available within the Department. Students are advised to consult the Department for information before choosing one of the groups, and any case, Departmental approval of the final program of studies is required before registration. In the case of students under (2), the program will be arranged in consultation with the Department of Classics and the Department of Philosophy and Psychology.

Honors in Philosophy will require ten courses in Philosophy. Six courses in a minor subject, or an integrated selection of six courses in a group of subjects, will also be required; this part of the program will be closely related to the student's special interests within the field of philosophy. Four optional courses outside the fields of philosophy and the minor will complete the program.

Honors in Philosophy and Greek will follow the requirements of Honors in Philosophy, with some reduction in the number of Philosophy courses in order to increase the number of Greek courses beyond the requirements for a minor subject.

Honors in Psychology will require eight to ten courses in Psychology. A minimum of four courses will be taken in a minor subject, which must be related to the subject-matter of psychology and to the student's special interests. A minimum of five optional subjects will also be chosen; some of these will be integrated with the program in psychology and in the minor, while others must be general options.

The B. A. will be awarded after successful completion of most programs for Honors in Psychology. Where the B. Sc. is sought, not only the minor but also some of the optional subjects will be chosen from Division C. The B. Sc. program is designed for students whose special interests are in Experimental Psychology or closely related fields.

In addition to final examinations in courses prescribed, students in the final year of all groups will be required to write two comprehensive examinations, one of which may take the form of an essay paper.

Dr. D. E. Smith moved that the Honors programs as outlined be approved.

Seconded by Professor Mardiros. Carried.

3. Special Cases

A letter was read by Dr. Davis, Chairman of the Revisions Committee, from four students in the second year of the Faculty of Medicine, requesting that the degree of B. Sc. in Arts be granted them at the end of their second year Medicine, although they had not been in the combined B. Sc., M.D. course. These students were admitted to Medicine from the second year of a general B. Sc. course because of their high standing. Since the other students now in second year Medicine would receive the B. Sc. degree, having entered Medicine from the combined course, these four students felt they would be at a disadvantage in the future so far as internships and graduate study were concerned if they were not granted the B. Sc.

Dr. Davis stated that the Revisions Committee considered this request in the light of the following. In favour of giving them the degree was the fact that their two years in the general B. Sc. course were stronger in senior Arts and Science courses than were the courses in the combined program. Also, they were good students and would possibly be eligible for scholarships from the Faculty of Medicine for research leading to a master's degree. Against granting their request was the fact that they voluntarily left the B. Sc. course at the end of their second year and entered Medicine when one more year in the Faculty of Arts and Science would have enabled them to complete the requirements for the B. Sc. degree. It was pointed out, also, that, according to Dr. Rawlinson, these students, after one year of basic research, could be granted the degree of B. Sc. in Medicine, and it was his opinion that this was the proper degree for such study. The Revisions Committee felt that if these four students

were awarded the B. Sc., a precedent would be set for reinstating the combined course, and all future students would have to be given the B. Sc. at the end of second year Medicine.

On behalf of the Revisions Committee, Dr. Davis moved that their request be not granted. Seconded by Dr. Scargill. Carried.

5. New Courses

Philosophy 61 LOGIC, SEMANTICS AND SCIENTIFIC METHOD 3 hours

An inquiry into the standards and principles of reasoning.

Philosophy 112 THEORY OF KNOWLEDGE 3 hours

Psychology 52 SOCIAL PSYCHOLOGY 3 hours

A survey of the influences of the social environment on behaviour.

It was moved by Professor Mardiros, seconded by Dr. Smith, that the above courses be approved.

It was explained that Psychology 52 was the revival of an old course which for the past few years had been included in the course Philosophy 52. It was proposed now to split Philosophy 52 into two courses, Philosophy 52 and Psychology 52, with an expansion of content in each case.

The motion was carried.

Education 314 - Sociology

The Chairman, in introducing this course, explained that it was a course in Sociology given by Professor Card of the Faculty of Education. He was now proposing that it be made available to students in the Faculty of Arts and Science, especially to those who were interested in a career in Social Work. The course as given was not a course in Education but a course in Sociology. Professor Salter expressed the view that a course such as this should be given by an instructor in the Faculty of Arts and Science and that instructors in the Faculty of Education should give only professional courses.

Dr. D. E. Smith moved the adoption of Sociology as a course in the Faculty of Arts and Science, to be given by Professor Card as at present. He went on to say that he thought the number "51" should be assigned to it rather than "57" since further courses in Sociology might be given in the future and this course would be an introductory course in the subject. Seconded by Professor Mardiros.

In answer to a question from the Registrar, the Chairman suggested that the course be listed in the calendar of the Faculty of Education as Education 314 (Sociology 51) and in the Arts calendar as Sociology 51 (Education 314). There followed a discussion as to the proper department to which Sociology should be temporarily assigned, with the Department of Political Economy and the Department of Philosophy & Psychology suggested as possibilities.

The Chairman suggested that it be placed in the calendar of the Faculty of Arts under a separate heading as was done in the case of Genetics. The Registrar thought it might better be included with Education 476 and Education 492 already listed on Page 160, but Dr. Smith disagreed with this, stating that it was not a course in Education but a content course which Professor Card was thoroughly competent to give. With the approval of the seconder, he suggested that the words "and that the course be under a separate heading in the calendar" be added to his motion.

The motion was then put and carried.

History 107

HISTORICAL METHOD

1 hour

An introduction to historical research; a study of bibliography, historiography, sources, their critical evaluation, internal and external criticism, the preparation of the historical essay and research projects. (Required of all Honors and graduate students)

It was moved by Dr. Collins, seconded by Mr. Blackley, that the above course be approved. Carried.

New Courses in Art

The Chairman reminded Council that the Fine Arts pattern had been abolished because of the lack of courses available. A Music pattern had been established as there were sufficient courses in Music to offer such a pattern. Professor Glyde was now proposing a B. A. pattern in Art which involved the establishment of five new courses in Art. Professor Glyde explained that the laboratory work for most of the subjects mentioned was already being carried on.

<u>Art 40</u>	FUNDAMENTALS OF DRAWING	3 hours lect. 3 hours lab.
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The theory and practice of drawing; analysis of masters' drawings; study of line, form, pattern, light and shade; portrait and figure construction; life drawing using both long and quick poses.

<u>Art 42</u>	FUNDAMENTALS OF PAINTING	3 hours lect. 3 hours lab.
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Theory and practice of painting in oils; forms in space; analysis of line, pattern and form in painting; study of arrangements in both 2-dimensional and 3-dimensional for proportion; use of light and shade; application of pigments in both monochrome and colour.

<u>Art 53</u>	PICTORIAL COMPOSITION	2 hours lect. 3 hours lab.
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Analysis of master compositions from the various schools of painting; theory and practice in arranging forms in the 2-dimension and in space; exercises in figure grouping; conventional treatment of natural forms for decorative painting; uses of various techniques.

<u>Art 54</u>	ADVANCED DRAWING	2 hours lect. 3 hours lab.
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Portrait and life drawing; drawing from memory and visualization; some anatomical drawing; study of the third dimension, light and shade, etc. from both the figure and draped model.

December 1, 1952

Art 60

ADVANCED PAINTING

2 hours lect.

4 hours lab.

Painting from the model; portrait, figure and costume; lectures on painting techniques used by the masters of the Renaissance and modern schools; theory and practice of applying pigments on various grounds in both the direct and indirect methods.

Professor Glyde moved the adoption of the courses as listed.

Seconded by Professor Eaton.

The Chairman pointed out that the existing courses, Art 51 and 52, are in history and appreciation, and the new courses are courses in technique. They would be referred next to the Committee on Time-tables and New Courses and thence to General Faculty Council and the Board of Governors for approval.

Professor Glyde's motion was carried.

6. B. A. Pattern in Art

First Year

Art 40 or 42

English 2

French 2 or Latin 2 or German 2

History 10

Laboratory science or mathematics course

Physical Education

Second Year

Art 51

Art 42 or 53 or 54

A senior course from Division A or B

An approved option

Laboratory science or mathematics course

Third Year

Art 52

Art 42 or 53 or 54 or 60

A senior course from Division A or B

An option

Laboratory science or mathematics course

It was moved by Professor Glyde, seconded by Professor Eaton, that the B. A. pattern in Art as set out be approved. After a short discussion, the pattern was approved as submitted.

7. Diploma Course in Art (A copy of the outline of the Diploma program is appended to these minutes.)

The Chairman informed members of Council that such a course had been under consideration for some time. Many students were taking evening classes and extension classes in Art at the present time but could claim no credit whatsoever for courses taken. There were students who wished to obtain professional training in an Art School or Institute and receive due credit for the work done. This matter was brought before the Board of Governors in 1950 and the question was raised at that time as to the duplication of such a diploma course here with the course offered at the Institute of Technology and Art in Calgary. A Committee was set up to discuss this question and decided that matriculation should be required of students admitted to such a course in the University, in which case it would, in a very slight degree only conflict with the course offered in Calgary. On June 20, 1950, Dr. Newton wrote to Dean Macdonald stating that the Board of Governors had decided that a diploma course in Art, without matriculation, be not instituted but that such a course based on matriculation would be acceptable. The matter was then referred back to a committee for drafting of a course. Professor Glyde had been working on such a draft for some time and was now submitting it for approval of this Council.

Professor Glyde moved the approval of the course. He went on to say that such people as Dr. Clare of Zoology and Dr. Rowan of the same department were available for certain courses in color and comparative anatomy respectively while the rest of the staff in the Art Division and in Extension could handle the rest of the courses. He pointed out, too, that the courses outlined were already being given, but in a rather haphazard

sort of way. Establishing the four-year Diploma course would bring these courses together into a unit and students taking such a course would feel they were accomplishing something. His motion was seconded by Professor Eaton.

In answer to a question, Dean Johns stated that candidates for the diploma would be recommended by this Council to General Faculty Council. This Council would have the responsibility, through the Department of Fine Arts, of considering the progress of these students and recommending them for their diplomas.

Professor Glyde further stated that the evening classes would continue but several of the courses would be given during the day. After some further discussion, it was agreed to change the word "school" to "program" in the first line of the first paragraph of the outline. Since it was hoped that the course would come into effect in the fall of 1953, attention would be given to the revised matriculation involved.

The motion was carried.

8. Changes in Course Descriptions

History 60 - to be changed to read:

History of the United States with emphasis on the period since 1865. It was moved by Dr. Collins, seconded by Mr. Blackley, that the change be approved. Carried.

Biochemistry 71 - Dr. Collier explained that the course was being changed at the request of the Department of Plant Science, in order to do away with the prerequisite of Biochemistry 50.

Biochemistry 71

PLANT BIOCHEMISTRY

3 hrs. lect,
3 hrs. lab.

A. E. Harper

This course is designed as an introduction to plant biochemistry for students in Botany and in Plant Science. Emphasis is placed on metabolic interrelationships (photosynthesis, respiration,

and nitrogen metabolism) and on cellular organization. The nature and properties of various plant products (e.g. carbohydrates, proteins, lipids, aromatic and heterocyclic compounds) are discussed.

The laboratory work consists largely of qualitative tests on plant constituents, but a few quantitative determinations and isolations are included.

Prerequisites: Chemistry 40 or 43, Chemistry 42 and Botany 1.

It was moved by Dr. Collier, seconded by Dr. Whyte that the above change in course description be approved. Carried.

Biochemistry 102 - change in content.

Biochemistry 102	NUTRITION	3 hours lect.)	
		3 hours lab.)	2nd half
A. E. Harper			

This course consists mainly of a survey of mammalian nutrition. The major groups of nutriments, nutritional requirements and interrelationships, and experimental techniques in nutrition are discussed. Throughout the course, emphasis is placed upon the metabolic basis of nutritional studies.

The laboratory work includes animal experiments illustrating nutritional deficiencies and a study of methods of analyzing foods and tissues.

Prerequisite: Biochemistry 50

Physics 1 - change of description.

"An introductory course on the basic principles of Physics, illustrated by experiments."

Physics 40

The phrase "wave-motion" to be inserted after "heat" in the description.

Physics 42

"Ray-tracing and image formation in optical systems; phenomena of wave propagation; visual aspects of light."

Physics 48 - latter part of description changed to read:

"be done in close co-operation with the Edmonton Office of the Canadian Meteorological Service."

December 1, 1952

Physics 51

To be renumbered 100 since it is available only to fourth-year Honours and Graduate students. Present Physics 103 to be dropped.

Physics 53

To be added: "Pre-requisites Physics 46, Mathematics 55"

Physics 54

To be deleted from the description: "energy distribution and statistical systems".

Physics 56

To be deleted from the description: "for B. Sc. students, etc."

Physics 102 - changed to read:

Mathematical Physics 102

Vector methods in field theory; detailed study of some of the differential equations of mathematical physics; boundary value problems; calculus of variations; Lagrange and Hamiltonian mechanics; introduction to quantum mechanics. One hour per week will be spent on class discussion of problems.

It was moved by Dr. Grayson-Smith, seconded by Dr. Scott that the above changes be approved.

With reference to Physics 51 being changed to Physics 103, which was at first suggested by Professor Grayson-Smith, Dr. Walker mentioned that there might be confusion if an old number such as 103 were attached to this course. It was agreed that the number 100 be assigned to the present Physics 51.

The motion was carried.

Philosophy 1

INTRODUCTION TO PHILOSOPHICAL INQUIRY

3 hours

"An elementary introduction which discusses the nature of philosophical problems and the methods of philosophical inquiry"

Philosophy 51

HISTORY OF WESTERN PHILOSOPHY

3 hours

A critical survey of the chief philosophical theories which have influenced western civilization.

Philosophy 52 SOCIAL PHILOSOPHY 3 hours
A philosophical and synoptic study of the nature of society.

Philosophy 53 CONTEMPORARY PHILOSOPHY 3 hours
A discussion of the main currents of present-day philosophical thought.

Prerequisite: Philosophy 51.

Philosophy 54 ETHICS 3 hours
An inquiry into the nature and justification of moral standards.

Philosophy 104 THEORY OF VALUE

Philosophy 105 - to be changed to Philosophy 60 with the following description:

An inquiry into the nature and justification of standards of art and beauty.

It was moved by Professor Mardiros, seconded by Dr. Smith that the above changes be approved. Carried.

Psychology 2 and 51

It was moved by Dr. Smith, seconded by Professor Mardiros that the courses, Psychology 2 and Psychology 51 be amalgamated into a single course, open to both junior and senior students as follows:

Psychology 40 AN INTRODUCTION TO GENERAL PSYCHOLOGY 3 hours
A survey of problems, methods and principles in various fields of psychology.

Motion carried.

8. Consolidated Examinations

The Registrar informed Council that lectures and laboratories on December 18, 19 and 20 would be cancelled for the Faculty of Engineering and on December 19 and 20 for Arts and Science for the purpose of consolidated examinations. A time-table was being prepared and would be

December 1, 1952

circulated to all departments. Mr. Taylor stressed the point that these examinations would take precedence over all lectures and laboratories or other examinations occurring at this time and that students must be released to write any examinations occurring during these three days.

9. Special A or B Subjects for B. Sc.

Dr. Grayson-Smith moved that the courses Psychology 40 and Philosophy 61 be included in the list of special A or B courses for B. Sc. students, and further, that Philosophy 61 be included in List 2. Psychology 40 would replace Psychology 51 already on the list.

Seconded by Dr. Scott. Carried.

10. Announcements of Fellowships

(a) Merck Postdoctoral Fellowships in the Natural Sciences

Grants from \$2,500 to \$5,000 per year with allowance for necessary travel. Applications forms and announcements available in Dean's Office.

(b) National Research Council - Grants in Aid of Research for 1953-54.

Application forms, regulations, etc. available in Dean's Office.

(c) National Research Council Postgraduate Scholarships in Science

Value - \$2,500 per year. Research to be carried on overseas. Application forms available in Dean's Office.

(d) Defence Research Board - Grants in Aid of Research

For year beginning April 1, 1953. Applications forms available in Dean's Office.

(e) Woodrow Wilson Fellowships in the Humanities

Announcements of these fellowships were distributed to departments in the Humanities and the Dean called for nominations to be forwarded to his office by December 10.

The meeting adjourned at 6:10 p.m.

Walter H. Johnson
Dean



Dec. 1, 1952.

35

DIPLOMA COURSE IN ART.

Minutes of the 442nd meeting of the Council of the Faculty of Arts and Science held in the Senate Chamber on Monday, February 2, 1953 at 4:30 p.m.

Present were: Dean Johns, Chairman; Professors Greene, Healy, Tuba, Moss, Spearman, Duggan, McIntyre, Mardiros, Blackley, Collins, Salter, Jones, Cormack, Scargill, Ryan, Moore, Rowan, J.W. Campbell, Miller, Warren, Collier, Stuart, Whyte, May, J.D. Campbell, Patrick, Wyman, Morrison, Hanson, Keeping, Phibbs, Clare, Folinsbee, Scott, Glyde, Davis, Grayson-Smith, Newbound and Mr. Taylor.

1. On a motion by Dr. Collier, seconded by Dr. Moore, the minutes of the December meeting were approved.

2. New Courses

The Chairman informed Council that Botany 107 and French 55 had been already approved by the Committee on Time-tables and New Courses and by General Faculty Council, subject to the approval of this Council.

Botany 107

Advanced Plant Anatomy & Histology 6 hours lect.-lab

R. G. H. Cormack

Methods of microchemical testing and preparation of plant material for microscopical examination. Interpretation of cytochemical data and critical studies of preparations.

Prerequisites: Botany 51, 52, Biochemistry 71

It was moved by Dr. Moss, seconded by Dr. Cormack, that this course be approved. Carried.

French 55

French Canadian Literature

3 hours

(To be offered in summer sessions only)

Dr. Healy explained that, although this course had once been approved, it had not been offered for several years. It would not normally be given in regular sessions but from time to time it might be given at summer sessions.

The instructor this summer would be from Laval University. It was moved by Dr. Healy, seconded by Dr. Greene, that the course be approved. Carried.

Geography

The Chairman informed Council that, on November 6, 1950, in connection with a discussion on the relation of Biology 41 to Botany 1 and Zoology 1 on the best course to offer as a C Division option for B.A. students in their first year, Dr. Macdonald had appointed a committee to study the question and bring in a report. The committee, under the chairmanship of Dr. Collins, recommended a course in Physical Geography. This report was tabled until it was known what the matriculation requirements for the Faculty would be. On February 5, 1951, a resolution was passed by this Council requesting that a Geography course be established as quickly as possible. The Board of Governors had now approved the appointment of a geographer. An attempt had been made to outline two basic courses which the new appointee would be asked to give in his first year here. The descriptions of the two courses here agreed fairly well with the recommendations made by Dr. Dudley Stamp in his survey of Geography in Canadian Universities.

Geography 1

Physical Geography

3 hrs. lect.
2 hrs. lab.

The physical geography of the principal regions of the world. Land distribution on the earth's surface; climatology; the relation of climate to soil and vegetation. The laboratory work will include the interpretation of maps and charts of various types.

Note: This course will be accepted as a C Division option for B. A. students in their first year and for others with the permission of the Dean of the Faculty.

Geography 50

Human Geography

3 hrs. lect.

Racial distribution. Social, cultural, and political geography.

Note: This course carries senior credit as a B Division option.

It was moved by Dr. Collins, seconded by Dr. Hanson, that the two courses as outlined be approved.

There followed considerable discussion as to the position of Geography in the curriculum. It was felt by some members that Geography 1 should appear in the third year instead of in the first for B. A. students; others expressed the view that there would be considerable overlapping between Geography and such courses as Geology 1, Physical Science 41, and Biology 41. Dr. Moss felt that the courses as outlined might be very thin, especially since there were no prerequisites. Dr. Warren, supporting the motion, pointed out that Geography might overlap with other courses but that it dealt with the subject matter from a different point of view.

The motion was put and carried.

3. Calendar Changes

Microbiology 60 (formerly Bacteriology 60)

3 hrs. lect.

3 hrs. lab.

A course in general microbiology including bacterial classification, metabolism and physiology, which serves as an introduction to the practical application of this knowledge to industrial processes and specific fields of animal and plant biology. The laboratory course illustrates the basic principles of the subject and provides instruction in appropriate technical methods.

Prerequisite: Chemistry 1 or 40 and Botany 1 or Zoology 1.

Dr. Stuart stated that the present tendency has been to use the term Microbiology when dealing with Bacteriology as a pure science, not in

its relation to Medicine. The use of this term would help to segregate it from courses in medical Bacteriology. It was moved by Dr. Stuart, seconded by Dr. Collier that the change be approved. Carried.

4. Pattern Changes - Geography 50 and Sociology 51

The Chairman stated that an informal committee, consisting of the Dean, Dr. Warren, Dr. Hanson and Dr. Davis, had studied the question of the best place for Geography 50 and Sociology 51 in the pattern scheme. It was moved by Dr. Davis, seconded by Dr. Warren, that Geography 50 and Sociology 51 be added to the list of special B courses that are open for B. Sc. students and further, that they be placed in List II. The Chairman stated that these courses would also be available as options throughout all the patterns, as neither required a prerequisite.

The motion was carried.

Geography 1 for B. A. Students

It was moved by Dr. Collins, seconded by Dr. Warren, that Geography 1 be accepted as a C Division option for B. A. students in the first year.

In opposing the motion, Professor Salter expressed the view that Geography 1 should be a Division B course since he felt that Geography should be a study of man in relation to the world. Neither he nor Dr. Miller felt that the laboratory work suggested would be adequate or would give training in the kind of discipline that laboratory work should give. Dr. Miller further stated that, in his opinion, Geography could not be considered a fundamental science. Dr. Folinsbee was concerned about the overlap between Geography 1 and Physical Science 41, and Dr. Moss stated that a similar overlap might occur between it and Biology 41.

In supporting the motion, Dr. Warren explained that Geography is intended to provide a synthesis of a number of different subjects from a different point of view.

A geographer has to explore various fields before he can begin to synthesize. He felt that Geography 1 would be anything but a "thin" course and that it should be considered a C Division course. Dr. Rowan felt that a geographer could help students to synthesize the various bits of scientific knowledge that they would get in taking such courses as Botany 1, Zoology 1, Biology 41, Physical Science 41, etc. and that the question of overlap was not a serious one. Professor Jones expressed the view that the course should be studied for itself alone, not necessarily for what it could synthesize. He felt it to be a human approach to things.

Dr. Collins' motion was put and carried.

Geography 1 for B. Sc. Students

(a) Physical Sciences and Mathematics

It was moved by Dr. Grayson-Smith, seconded by Professor Keeping, that Geography 1 be added to the Chemistry, Mathematics and Physics patterns where at the present time the option is one of Botany 1, Zoology 1 and Geology 1. Some opposition was expressed from the biological departments who felt that this move would tend to reduce the amount of Biology studied by students in the Physical Sciences and Mathematics.

The motion was carried by a vote of 27 to 7.

(b) Biological Sciences

Dr. Moss moved that Geography 1 be listed as an alternative course to Geology 1 in the first year of the Botany pattern. Seconded by Dr. Wyman. Carried.

It was moved by Dr. Rowan, seconded by Dr. Davis, that Geography 1 be an alternative to Geology 1 and Mathematics 45 in the second year of the Zoology pattern. With regard to Physical Geography being considered as a laboratory course, the Chairman pointed out that Dr. Stamp had given some details on the work to be done in the laboratory such as examining the globe

of the world, the study of parallels of latitude, meridians and longitude and also a certain amount of field work.

Dr. Moore moved an amendment to the motion: "that Geography 1 be taken in the Zoology pattern with the approval of the Department concerned." Seconded by Dr. Whyte. After some further discussion, the amendment was put and carried.

The motion as amended was then put: that Geography 1 be inserted as an option in the second year of the Zoology pattern as an alternative to Geology 1 and Mathematics 45, to be taken with the approval of the Department. Carried.

It was agreed to leave consideration of the Entomology pattern until a representative from that Department could be present.

5. Physics 105 - elimination of the final examination.

Dr. Grayson-Smith moved that the final examination be waived in Physics 105, a highly mathematical graduate course in which the year's mark would be based on assigned problems which required a great deal of work. Seconded by Dr. Scott. Carried.

6. Other business

Dr. Miller asked if there would be time to study the whole problem of Geography 1 before it was inserted in the calendar as a C Division option for B. Sc. students. The Chairman stated that there would be an interval of three weeks before the next meeting of General Faculty Council and that members of this Council could study the question and present their views at that meeting when final decision on the question would be made.

There being no further business, the meeting adjourned at 5:45 p.m.

Walter H. Johns.
Dean

Minutes of the 443rd meeting of the Council of the Faculty of Arts and Science held in the Senate Chamber on Monday, March 2, 1953 at 4:30 p.m.

Present were: Dean Johns, in the Chair; Professors Walker, Collins, Hanson, H.E. Smith, Collier, Moss, Davis, Miller, J.W. Campbell, Phibbs, Grayson-Smith, Patrick, Duggan, Crosby, Wyman, Scott, Strickland, Mayo, May, Blackley, Scargull, Spearman, Mardiros, D.E. Smith, Keeping, Orchard, Salter, Gowan, Newbound, Rees, Folinsbee, Morrison.

The Chairman welcomed Dr. D. R. Crosby of the Department of Mathematics who had been appointed to Council and also Dean Smith of the Faculty of Education who had been invited to this particular meeting because of the proposed changes in Mathematics and Physics which might be of concern to the Faculty of Education.

1. Minutes

It was moved by Dr. Hanson, seconded by Dr. Grayson-Smith, that the minutes of the previous meeting be approved as circulated. Carried.

2. Changes in the Department of Mathematics

By way of introduction, the Chairman stated that a Committee of General Faculty Council had been appointed to investigate the changes that would be necessary in the University courses likely to be affected by the recent changes in the Mathematics curriculum in the High School. This committee had held a number of meetings and finally was able to make a draft report which was submitted to General Faculty Council. It was not discussed there but was referred for study to the Councils of the Faculties of Arts and Science, Engineering, Education and of other interested Faculties or Schools, before being referred back to General Faculty Council.

The Department of Mathematics had been studying this question right up to the present date and had changes to recommend even beyond the draft before Council at this meeting.

- (a) Mathematics I (Elementary Mathematics) 5 hours

Plane Trigonometry. Solution of Triangles, Trigonometrical Identities and Equations.
Binomial Theorem, Approximation, Rates of change. Differentiation of simple functions, Maxima and Minima. Curve sketching.
Integration of simple functions.
Analytical Geometry of the straight line and circle, and the conic sections.
Simple determinants.

Text-books: Trigonometry (e.g. Holmes)
Phillips, Analytic Geometry and Calculus (Chapters I-5)

It was moved by Dr. Campbell, seconded by Professor Keeping that this course be approved. Professor Keeping pointed out that the course content was practically the same as that now given in Mathematics A, but the course would now be the regular first year course in ^Mathematics for all students, effective in 1954. The first course in Mathematics for Engineering was almost the same only slightly shortened. It was pointed out further that this course would no longer be considered the equivalent of Grade XII mathematics since all students entering University when the new matriculation came into effect would have the new course, Mathematics 30, from High School.

The motion was carried.

- (b) Mathematics 40 (Calculus) 5 hours

Differentiation and Integration of trigonometric, exponential and logarithmic functions.
Parametric equations.
Methods of Integration. Applications. Series.
Space Geometry.
Partial Differentiation.

Text-book: Phillips, Analytic Geometry and Calculus (Chapters 6-16)

It was moved by Dr. Campbell, seconded by Professor Keeping, that this course be approved. It was explained that this Mathematics 40 was essentially the same as the old Mathematics 40 plus a little extra. Since Mathematics I would be a prerequisite, it was felt that Mathematics 40 could cover slightly more ground than at present.

There followed a short discussion concerning the number of hours involved, particularly for second year Honors Chemistry students, and it was felt that some adjustment would have to be made in their program.

The motion was carried.

- (c) Mathematics 46 (Nature of Mathematics) 3 hours

The number system.

Axioms of Euclidian and non-Euclidian geometry.

Elements of topology.

Functions and limits.

Introduction to calculus.

Text-book: Courant and Robbins, What is Mathematics?

It was moved by Dr. Campbell, seconded by Professor Keeping, that this course be approved. Professor Keeping explained that this was an entirely new course intended for students who did not plan to go on in Mathematics, and for B.A. students. It was to be a broad, general course which would give students some idea of what mathematics is, and no techniques would be involved. The prerequisite would be Mathematics 30 of Grade XII.

The motion was carried.

- (d) Mathematics 55 (Differential Equations) 3 hours

Ordinary Differential Equations.

Partial Differential Equations.

Fourier Series.

Special Functions.

Line, surface and volume Integrals.

Complex Numbers.

Text-book: to be decided

It was moved by Dr. Campbell, seconded by Professor Keeping, that this course be approved. Professor Keeping explained that this new Mathematics 55 was made up partly of the existing Mathematics 55 and partly of Mathematics 57. It was intended to be of value to students from other departments such as Physics and Chemistry.

The motion was carried.

- (e) Mathematics 61 (Foundations of Analysis) 3 hours

The number system. Real numbers.
Linear point sets.
Limits. Continuous functions.
Differentiation.
Mean Value Theorems. Taylor's Theorem. Functions of several variables.

Text-book: Hardy, Course of Pure Mathematics

Dr. Campbell, moved, Professor Keeping seconded, that this course be approved. This course was to be almost exclusively for Honors Mathematics students and other departments would not likely be involved.

The motion was carried.

- (f) Mathematics 57 (Advanced Calculus) 3 hours

Applications of Partial Differentiation.
Stieltjes Integrals.
Improper Integrals.
Multiple Integration.
Convergence and Uniform Convergence of sequences, series and integrals.
Convergence of Fourier series.
Introduction to complex variables.

Text-book: to be decided.

Dr. Campbell moved, Professor Keeping seconded, that Mathematics 57 be approved. This course was also to be for Honors students in Mathematics.

The motion was carried.

(g) Mathematics Pattern

<u>First Year</u>	Maths I Physics 40 Chemistry 40 One of Botany 1, Zool. 1, Geol. 1, Geog. 1 English 2 or 5
<u>Second Year</u>	Maths 40 One of Maths 41, 43, 45, 53, 50, 51, 61 Physics 46 One of Botany 1, Zool. 1, Geol. 1, Chem. 42 Special A or B course
<u>Third Year</u>	Two of: Maths 41, 43, 45, 50, 53, 51, 61, 56, 55, 62 One Physics option One open option Special A or B course

Note: Not more than one of the three courses Mathematics 43, 45, 53 may be included in the pattern.

Dr. Campbell moved the approval of the Mathematics pattern as read, pointing out that the only major difference was that Mathematics I appeared in the first year and Mathematics 40 in the second, plus a note which read: Not more than one of the three courses, Mathematics 43, 45 and 53 may be included in the pattern.

The motion was seconded by Professor Keeping and carried.

(h) Honors Program

The only change involved a recommendation from the Department that in the second year of the Honors program, students may be registered in four courses in Mathematics instead of three as at present prescribed. One of the four would be Mathematics 41. The Department felt justified in asking for this concession because of the lightened matriculation in mathematics. Also, two of the courses, namely Astronomy and Mechanics, were really only on the fringes of Mathematics.

It was moved by Professor Campbell, seconded by Professor Keeping, that this change be approved.

Dr. Walker felt that this should properly be referred to the Committee on Honors before coming before Faculty Council since a matter of principle was involved. He moved an amendment to the motion to the effect that the change be referred to the Committee on Honors for discussion. Seconded by Dr. Moss.

The amendment was carried.

General Statement Regarding Mathematics

First Year

It was moved by Professor Campbell, seconded by Professor Keeping, that the first year courses as listed be adopted. After some discussion, it was agreed to move Mathematics 53 (Astronomy) to the list of second year courses. Carried.

Mathematics I (Elementary Mathematics)
 Mathematics 42 (Commerce Statistics)
 Mathematics 43 (Finance)
 Mathematics 45 (Statistics)
 Mathematics 46 (Nature of Mathematics)

Second Year

It was moved by Professor Campbell, seconded by Dr. Wyman, that the list of second year courses be approved. Carried.

Mathematics 40 (Calculus)
 Mathematics 41 (Mechanics)
 Mathematics 50 (Algebra)
 Mathematics 51 (Projective Geometry)
 Mathematics 53 (Astronomy)
 Mathematics 61 (Foundations of Analysis)

Third Year & Fourth

It was moved by Dr. Campbell, seconded by Professor Phibbs, that the list of courses for these years be approved. Carried.

Mathematics 55 (Differential Equations)
 Mathematics 56 (Mechanics)
 Mathematics 57 (Advanced Calculus)
 Mathematics 62 (Advanced Statistics)
 Mathematics 103 (Differential Geometry)
 Mathematics 107 (Advanced Algebra)

3. Changes of the Department of Physics

First Year Courses

Physics 1 and 41 (General Physics)

Professor Grayson-Smith explained that there was no change in the outline of these two courses but that some topics would be given a simpler treatment.

Physics 40 (Mechanics, Properties of Matter and Heat)

The change here involved Light and Sound which were to be dropped from this course. Due to the postponement of Mathematics 41 (Mechanics) to the second year, it was considered necessary to give a thorough introduction to Mechanics from the point of view of Experimental Physics, and consequently light and sound were to be dealt with in another course.

It was moved by Dr. Grayson-Smith, seconded by Dr. Gowan, that the changes in Physics 40 be approved. The following is the description of the course.

Mechanics: - Principles of measurement, velocity, vectors, acceleration and problems in kinematics, Newton's laws of motion, equilibrium of forces, centripetal forces, torque and rotating bodies, simple harmonic motion, friction, work and energy, simple machines, gravitation, impact (about 11 weeks)

Properties of Matter: - Molecular structure of matter, elasticity, hydrostatics, gas pressure, Boyle's law, introduction to kinetic theory, surface tension, Bernoulli's theorem, viscosity (about 7 weeks)

Heat: - Temperature, expansion of gases and liquids, gas laws, change of state, vapour pressure and humidity, properties of a real gas, solutions, heat transfer, mechanical equivalent and heat engines (about 8 weeks)

Prerequisite: Science 30 in High School

Dr. Walker of the Department of Chemistry was disturbed over this change, as light and sound were both necessary for Honors Chemistry students. The change would mean that such students would need to take Physics 40, 46 and a

third course in Physics in order to include all the necessary phases of Physics. From the point of view of hours per week, it would be practically impossible. The suggestion was made that Physics 21 and 43 in Engineering would better suit the needs of Honors Chemistry students. Dr. Grayson-Smith explained that, in making the above changes, the Department were primarily considering the needs of students in the Physics and Mathematics patterns.

After some further discussion, Professor Salter moved an amendment to the motion to the effect that the Departments of Chemistry and Physics be empowered to work out a solution and present it to General Faculty Council in the name of this Council. Seconded by Dr. Newbound.

The amendment was carried by a vote of 14 to 11.

The Chairman pointed out that members of the Department of Mathematics who are members of General Faculty Council would have an opportunity of taking part in a discussion at the General Faculty Council. It was agreed that the solution arrived at by the Departments of Chemistry and Physics should be circulated to all interested Departments prior to the General Faculty Council meeting.

Second Year Courses

Physics 42 (Light and Acoustics)

Wave motion and classical acoustics (about 7 weeks)
Geometrical optics (about 9 weeks)
Physical optics (about 10 weeks)

Details have yet to be worked out. The treatment of geometrical optics will have to start from the beginning, with the result that the treatment of interference and diffraction will be much less extensive than in the present Physics 42. Treatment of optical instruments and lens aberrations may also have to be curtailed.

It was moved by Dr. Grayson-Smith, seconded by Dr. Scott, that Physics 42 be approved. Carried.

Physics 46 (Electricity and Magnetism)

The outline of this course will be much as at present, except that theoretical calculations based on Gauss' theorem and Laplace's law will have to be omitted. Since this course will now extend through the whole session, the (purely qualitative) discussion of motors and generators can be extended, and an introduction to the electron can be given.

It was pointed out that there was very little change in this course but that the course would be three weeks longer than at present since a separate course would be given to Engineering students. It was suggested by the Department of Physics that, under certain circumstances, Arts and Science students could be permitted to substitute Physics 43 of second year Engineering for Physics 46.

It was moved by Dr. Grayson-Smith, seconded by Dr. Gowan, that this course be approved. Carried.

Senior Courses

Dr. Grayson-Smith stated that Mathematics I would be prerequisite to all senior courses in Physics, including Physics 50, otherwise there was very little change in such courses as Physics 48, 50 and 56. Other courses normally taken by Honors and Graduate students would require further consideration but it was planned to make Mathematics 40 of the second year prerequisite to all these courses and Mathematics 55 of the third year either prerequisite or corequisite.

It was moved by Dr. Grayson-Smith, seconded by Dr. Newbound, that, commencing in 1956, Mathematics I be prerequisite to all senior courses in Physics. Carried.

Physics Pattern

The ^{chief} only change in the pattern involved replacing Mathematics 40 with Mathematics I in the first year and Mathematics 55 with Mathematics 40 in the second year. It was moved by Dr. Grayson-Smith, seconded by Dr. Gowan, that these changes be approved. Carried.

Honors Physics

First Year: - Same as Physics pattern

Second Year:- Physics 42 and 46
Mathematics 40 and 41
A or B option

Third & Fourth Years:- to be decided

Dr. Grayson-Smith moved, Dr. Scott seconded, that the Honors prescription for the first two years be approved. The third and fourth years would be decided upon later.

Dr. Walker suggested that this change should properly go before the Committee on Honors before being presented to this Council. It was finally agreed that Council should vote on the first two years and then when the last two years were decided upon, the whole program could be discussed by the Committee on Honors and be referred back to Council.

The motion was carried.

4. Other Departmental Changes

Philosophy-Psychology

Dr. D. E. Smith presented a new description for Philosophy 4, the course given to Roman Catholic students by St. Joseph's College.

Philosophy 4 - An Introduction to Philosophy

This course is divided into two parts. The first part will give beginners an historical and critical introduction to some of the basic problems of philosophy and furnish a foundation for further study. The emphasis will be on the Thomistic solution of the different problems studied. The second part will be an introduction to psychology and will consider man both as a sentient and rational animal. Pertinent discoveries of modern Physiology and experimental psychology and their relation to Thomistic psychology will be discussed.

Dr. Smith explained that the course was being given in this way at the moment and formal approval of Council was needed. He pointed out that

the course was not accepted in lieu of Philosophy 1 or Psychology 2 of the Philosophy-Psychology pattern but as a B option in the first year. It was moved by Dr. Smith, seconded by Professor Mardiros, that the change in description be approved. Carried.

5. Appointments with UNESCO

Dr. Johns informed Council that appointments in under-developed countries were available to highly trained people, chiefly in the fields of science. Salaries were from \$6000 to \$8400, tax free, and appointees were given the status of International Civil Servant. Detailed information was available in the President's Office.

6. Other business

Dr. Crosby asked permission to distribute a statement concerning matriculation standards in Alberta, comparing those of 1936-39 with those that will likely be in effect in 1954. He asked the support of Council to a motion he would like to make at some time in the future concerning the abrupt change in standards of achievement experienced by students on proceeding from High School to University. He felt that a transition year either in the High School or in the University would help reduce the impact of this change.

There being no further business, the meeting adjourned at 5: 50 p.m.

Walter H. Johns
Dean

Addendum to Minutes of the meeting of March 2, 1953

A group from the Physics Department met with members of the Chemistry and Geology Departments on Friday, March 6, 1953 to discuss the proposed changes in First and Second Year Physics courses. The following were present: Dr. H. Grayson-Smith, Dr. E. H. Gowan, Dr. D. B. Scott, Dr. K. B. Newbound, Dr. O. J. Walker, Dr. J. L. Morrison, Dr. S. G. Davis, Dr. R. E. Folinsbee.

After some discussion it was agreed that the solution which has been proposed to the Faculty of Engineering would also be the most suitable for both Chemistry and Geology. It was understood at the last meeting of the Council of the Faculty of Arts and Science that any changes were to be reported upon directly to the General Faculty Council. It was agreed to recommend the following changes in the report previously submitted to the Faculty of Arts and Science.

1. Physics 40 - Insert after "properties of matter",-

Wave motion and introduction to sound (2 weeks)

Reduce "properties of matter" to 6 weeks and "heat" to 7 weeks.

2. Under courses available for second year insert the following new courses:

Physics 43. Electricity, Magnetism and Light

A detailed outline of this course is still under consideration. It will include approximately 15 weeks of electricity and magnetism, up to an introduction to AC circuits, followed by about 8 weeks of Light including a little work on Interference and Polarization. (This course will be common to Arts and Science, Engineering and possibly Education.)

3. In the Chemistry pattern, Second Year, replace Physics 46 by 43.
4. To insert in the Calendar a note that credit will not be given for Physics 42 or 46 to students who have already taken 43.

5. The Geology Department are considering the prescription in Geology pattern of Physics 40 in the first year and Physics 43 in either Second or Third year. This recommendation, however, is not to be included in the report to General Faculty Council until the Geology Department have had time to consider their pattern in more detail.

As the Physics Department is very reluctant to give up the separate courses, 42 in Light and 46 in Electricity, for their own students and for students in Mathematics, these new proposals will probably mean offering three sections of Physics 43 and one small section of Physics 46. This is an increase in the total teaching load of three lectures per week.

As recommended by the Arts and Science Council, copies of this proposal are being sent to the Department of Mathematics and to the Faculty of Education.

(Signed) H. Grayson-Smith

May 7, 1953

444th

Minutes of the meeting of the Council of the Faculty of Arts and Science held on May 7 at 2:00 p.m. in the Senate Chamber.

Present were: Dean Johns in the Chair; Professors Harris, Davis, Crosby, Wyman, J.W. Campbell, McIntyre, Duggan, Patrick, Salter, Mayo, May, Spearman, Tuba, Collier, Mueller, Blackley, Jones, Mardiros, Whyte, Healy, Nichols, J.D. Campbell, Scargill, Smith, Rowan, Grayson-Smith, Morrison, Newbound, Scott, Miller, Cormack, Card, Moss, Moore, Phibbs, Hocking, Hanson, and Mr. Taylor.

The Chairman welcomed Professor B. Y. Card of the Faculty of Education as a member of this Council and mentioned that he would be giving instruction in Sociology and in Social Psychology during the 1953-54 session.

Dean Johns then introduced Miss Gisela Kampff, who was assisting Miss Molloy and would later succeed her as the Dean's Secretary. Dr. Newbound moved a resolution expressing the appreciation of members of Council for Miss Molloy's able assistance in her varied duties in the Dean's Office. The resolution was warmly endorsed by the applause of members of Council.

The Chairman called for a motion to approve the minutes of the previous meeting as circulated. Professor Grayson-Smith called attention to a slight error in the wording of the paragraph referring to the Physics pattern and suggested that the word "only" in the first sentence of the paragraph be changed to "chief". Subject to this amendment, Professor Grayson-Smith moved the adoption of the minutes, seconded by Dr. Newbound. The Chairman stated that the committee referred to in the minutes to study changes in certain Mathematics and Physics courses had met and had made their recommendations directly to General Faculty Council as they

had been empowered to do. These changes were discussed there and approved. Further action was not called for by this Council since General Faculty Council had dealt with the matter definitively.

The motion regarding the minutes was carried.

NEW BUSINESS

1. Appointment to Committee on Honors

It was moved by Dr. Cormack, seconded by Dr. D. E. Smith, that Professor J. T. Jones of the Department of English replace Professor Salter of that Department on the Committee on Honors. Both professors concerned were in agreement with this change. Carried.

2. Honors Program in Mathematics

The program, which had received approval by the Committee on Honors, was now presented by Dr. Campbell who moved its adoption. Seconded by Dr. Wyman.

First Year: Same as in the minutes of the previous meeting

Second Year: Maths 40; Maths 41; Maths 50 or 51; a C option from another Department; a senior A or B option.

Third Year: Maths 41 or 50; Maths 55; Maths 61; one of: Maths 56, Maths 62, Maths 107; a senior A or B option.

Fourth Year: Maths 102; Maths 103; two from: Maths 56, Maths 57, Maths 62, Maths 101, Maths 104, Maths 105, Maths 107, Maths 108, Maths 109, Maths 110; an open option which may be German 1.

Dr. Wyman drew attention to the fact that the Committee on Honors had recommended a senior A or B option in the second year, whereas he would prefer to see it in the fourth year. He felt that an open option in the second year would allow a student interested in German to take German 1 in that year and follow it up with a further course in German later. Dr. Grayson-Smith pointed out that the reason for requiring a special A or B course in the early years of the Honors course was to provide a liaison between the Honors program and the pattern and permit an easier change from one to the other.

The suggestion was made that the open option appear in the third year and the A or B in the fourth. Dr. Wyman moved an amendment to the motion to the effect that the open option appear in the third year and the special A or B option in the fourth year. Seconded by Professor Phibbs. It was noted that German 40 could be included as one of the A or B options to appear in the fourth year. The amendment was put and carried.

The motion re the Mathematics Honors program as amended was put and carried. The Chairman reported that the Honors program in Physics was not yet ready to be discussed.

3. Report of the Committee on Honors re Graduating students.

The Governor-General's Gold Medal:

Robert Folinsbee Snider

Recommended for First Class Honors:

Antoniuk, Stephen Alexander	Geology
Brine, Margaret Ann	Latin & French
Darwish, David	Chemistry
Hardy, Margaret Ann	Latin & French
Porter, Ralph Frederick	Chemistry
Siebrasse, Kenneth Vernon	Chemistry
Snider, Robert Folinsbee	Chemistry
Zytaruk, George, B.Ed.	English

Recommended for Honors:

Cummins, Brian Holford	Latin & French
Howard, Ronald Adrian	Geology
Laniuk, Michael	Geology
McIntyre, Donald David	Geology
Mawdsley, James Cleugh	Geology
Pasukonis, Walter Benedict	Geology
Patton, William John Hudson	Geology
Trout, Joan Gwendolyn	Modern Languages
Waller, Ronald Chester	Psychology
Woodman, Terence Gilbert	Geology

It was moved by Dr. D. E. Smith, seconded by Dr. Moss, that the names of graduating students in Honors be recommended to General Faculty Council for their degrees. Carried.

4. Report of the Revisions CommitteeRecommended for the degree of Bachelor of Arts:

Amerongen, Henry Joseph
 Anderson, Roy Terence
 Bainbridge, Doris Claire
 Bezborodka, Peter Robert
 Biamonte, Robert Donald
 Brine, Margaret Ann
 Brosseau, George Reginald
 Brown, Lesley Mary Eleanor
 Buchanan, Julian Judd
 Caruk, Anton
 Catley, Helen Vera
 Clark, Audrey May
 Clarke, Jane Hall
 Code, William Everett
 Cummins, Brian Holford
 Dinkel, Robert Stanley
 Dyer, Robert Oakley
 Dzenick, Russell Lawrence
 Edgar, Tannis Muriel
 Fitzpatrick, Kathleen Mavis
 Galbraith, Margaret Thompson
 Garfin, Molly
 Haack, Bruce Clinton
 Hardy, Margaret Ann
 Harvey, Gwendoline Laura - 1st
 class standing, and 1st class
 general standing
 Holsworth, Rosemary
 Hrynyk, Rita Evelyn
 Hymas, Marilyn Lois
 Jackson, Thomas
 Jeffrey, Bernadene Lenore
 Jull, Richard William
 Kabayama, Yoshiomi
 Kerr, Colin Hugh
 Kloepper, Arthur
 Kush, Eugene
 McCaw, Ruth Darlene
 McDonald, David Cargill
 Macdonald, Hugh Frederick
 Morris, John Joseph Harrold
 Myra, Jo Ann Laura
 Nelson, Brian Hansen
 Newman, Tibebe
 Oughton, Calvin David
 Palmer, Wilma Katharine
 Porkka, Albert Roy
 Potter, Gillian Ann

Puffer, Frances Anita - 1st class
 standing, and 1st class general
 standing
 Redmond, James Edward
 Reesor, Joan Margaret
 Ruddick, Mary
 Simons, Norman Wolfe
 Singleton, Howard B., B. Ed.
 Smith, Jean Mary - 1st class standing,
 and 1st class general standing
 Steeves, Helen Phyllis
 Stephenson, Gordon Earl
 Stolee, James Sigurd
 Stoner, June Myrtle
 Takada, Minoru
 Trout, Joan Gwendolyn
 Wachowich, Edward Robert
 Waller, Ronald Chester
 Wood, William Ernest
 Wright, Robert Russel
 Zytaruk, George, B. Ed.

It was moved by Dr. Davis, seconded by Dr. Scargill, that the above students be reported to General Faculty Council as being clear for their degrees. Carried.

Recommended for the degree of Bachelor of Science:

Agnew, Hinds	Hepburn, Joyce Marie
Anderson, Ellis Albert	Hewko, Walter Josephot
Antoniuk, Stephen Alexander	Holmes, Alexander McDonald
Argue, Gary Ramsay	Holubitsky, Isadore Boris
Atkins, Edward Lawrence	Howard, Ronald Adrian
Averbach, Isadore	Hunter, Elma Jean
Backman, Keith Morley	Isakson, Sylvia Joy
Bannerman, Joyce Clara Ruth	Johnston, David Ronald - 1st
Bayrock, Luboslaw Antin	class standing
Beatty, James Gilmour	Jones, Marguerite
Bishop, Earl William	Kent, Geraldine Evelyn
Bourque, Emma Joan	King, Grace Louise
Buck, Harold William Lambert	Kline, Terence Stanley
Buck, Walter Alexander	Komhyr, Walter Dmytro
Callow, George Oswald	Kucey, Stanley Stephen
Campbell, Donald Lorne	Kushniruk, Mackim
Casey, Ronald Jack - 1st class	Lang, Donald Wilson
standing	Lamarre, Joan Fay
Chalus, Walter	Laniuk, Michael
Christensen, Dorothy June	Larsen, Joyce Anna
Christiansen, Harold Victor	Lee, Cameron Lyle
Clements, Milton Keith	Li, Pao Ming
Cooper, Jack Phillips	Lingas, Daphne Irene
Court, Marjorie Violet	Linke, Evelyn Gerda
Craddick, Ray Albert	Lipinski, Eugenius
Cruickshank, Robert Allan	Loughlin, John Louis
Darwish, David	McDonell, Elsie Joan
Dencer, Reginald Bernard John	McIntyre, Donald David
Dmitroca, Walter	McWilliams, William Andrew
Dushenski, Ladimer Alex.	Mallett, William Ray
Emery, Michael Albert	Mann, Avarad Sefton
Fernuik, Walter	Mawedsley, James Cleugh
Fitzgerald, Edward John	Misak, Joseph Steve
Fyvie, James Norris	Mitchell, Marvin
Goodman, Hugh Walter	Nixon, Lloyd Howard
Gorgichuk, Oryst Dan	Orr, Patricia Florence
Godel, John Charles	Pasukonis, Walter Benedict
Gort, John	Patterson, Joyce Audrey
Grant, James McNeill	Patton, William John Hudson
Graham, William Mair	Penfold, Vincent Frederick
Graves, Robert Roy	Pisesky, Walter
Green, Joan Rosemary	Porter, Ralph Frederick
Harle, John Rodney	Publicover, Henry Manuel
Harrison, Marshall Albert	
Hay-Roe, Victor	
Hayton, Robert Carlyle	

Rensaa, Margaret Alice
 Ruttan, Doreen Marie
 Ryan, Archie Richmond
 Scott, Moira Alfraetta
 Shaul, Raymond James
 Siebrasse, Kenneth Vernon
 Simpson, Jack Cairns
 Snider, Robert Folinsbee
 Spevakow, Robert Louise
 Stefancik, Jan
 Stefanik, George
 St. Peter, Patsy Ann
 Stroud, Harry Ruault

Taylor, William Harry
 Wade, Mervin Alvin
 Webber, Mary Patricia
 Welguz, Victoria Elizabeth
 Westover, Gary Groves
 Whitbread, David Hughes
 Wickens, Charlton Raymond
 Wigham, Darol James
 Williams, John Albert
 Woznura, Roman Alexander
 Woodman, Terence Gilbert

It was moved by Dr. Davis, seconded by Dr. Newbound, that the above students be reported to General Faculty Council as being clear for their degrees. Carried.

Failed to meet requirements for the B. A. degree:

Abercrombie, William Dyson	2 failures in Law
Ailley, Shemma Katherine	2 failures, lacks 2 seconds
Bell, William Alan	lacks 1 second
Collins, Allan Ross	3 failures in Law
Kern, George Herman	1 failure, lacks 1 second
Kerr, Robert Douglas	1 failure in Law
McCaffery, Michael Thomas	lacks 2 seconds
Meeres, Ralph Horace	lacks 2 seconds
Sheckter, Frank	1 failure, lacks 3 seconds
Stares, William Hamilton	lacks 2 seconds
Steinberg, William	1 failure, lacks 3 seconds
Stutchbury, Roderick Alan	lacks 1 second
Tatroe, Jean Iris	1 failure, lacks 1 second
Wensel, Martha	lacks 1 second

It was moved by Dr. Davis, seconded by Dr. Scargill, that the above recommendations be reported to General Faculty Council. In answer to a question, Dr. Davis explained that both the old and the new second-class standing regulations were used. Most of the students met the old requirement, but if the student met the new requirement and his record merited it, he was given the favorable ruling.

The motion was carried.

Failed to meet the requirements for the B. Sc. degree:

Chinneck, John Montgomery	1 failure, lacks 1 course, lacks 3 seconds
Conroy, Robert Malcolm	1 failure, lacks 1 second
Corness, Dennis William	2 failures
Cumming, Lloyd William	lacks 1 second
Evans, Ralph Gordon	1 failure
Fitzgerald, Edward Leo	1 failure
Hauptman, Albert Walter	1 failure, lacks 1 second
Hirst, Georgean	lacks 1 second
Hominiuk, Harry Michael	1 failure
Kuchar, Russell	lacks 2 seconds
Kuznecov, Walter	1 failure
Lee, Duane Parnell	lacks 2 seconds
Lefsrud, John Bertrand	1 failure in Medicine
Li, Pao Ming	lacks English 2 or 5, lacks 2 seconds
Lys, Roslow Peter	1 failure, lacks 1 second
MacDougall, David Bruce	3 failures, lacks 1 second
Mandryk, Harry	1 failure, lacks 1 second
Nix, Harold Robert	1 failure, lacks 2 seconds
Niziol, Stefan	lacks 2 seconds
Parney, Fred Lyman	1 failure, lacks 1 second
Peacock, George William	1 failure
Rae, Donald Allan	1 failure, lacks 1 second
Shipka, Thomas Harry	lacks 2 seconds
Sweetnam, Victor Samuel	1 failure, lacks 2 seconds
Switzer, Robert James	1 failure

It was moved by Dr. Davis, seconded by Dr. Newbound, that the above recommendations be reported to General Faculty Council.

Dr. Scott raised the case of Pao Ming Li who had failed to pass English and who lacked two seconds for his degree. Dr. Scott moved, as an amendment to Dr. Davis's previous motion, that Mr. Li be granted his degree, seconded by Dr. Rowan.

The Dean read from the minutes of the meeting of December, 1948 regarding Mr. Li's case. It was noted that he had been in attendance here for five years and had succeeded in obtaining credit in 14 subjects, exclusive of English 2 or 5. His record indicated that he did not seem to have the ability to adapt himself as readily as some Chinese students have.

Mr. Li felt that he could not return to China without a degree. He also had aspirations regarding graduate work but had been told that such a thing was out of the question. If he were granted the B. Sc., he would likely return to China and obtain employment in some kind of scientific work.

There followed a discussion as to Mr. Li's ability to grasp significant data and the extent of his actual knowledge, despite the language handicap. Dr. Scott expressed the opinion that, since the University admitted him in the first instance, in spite of his language difficulty, and had since permitted him to carry on for five years, the University was somewhat obligated to this student. He felt that the degree should be granted on the basis of his present record. Professor Salter mentioned that such a case would not likely occur again in view of a regulation passed last year which required foreign students to pass certain English tests before being admitted to the University.

Dr. Scott's amendment, seconded by Dr. Rowan, was then put as follows: that Mr. Li be recommended for his B.Sc. degree and that the English requirement be considered as waived. Amendment carried.

Dr. Davis's motion as amended was then put and carried.

Professor Salter raised the case of Miss Martha Wensel who had failed to meet the requirements for the B. A. degree. Considerable discussion took place during which it was pointed out that Miss Wensel had been returning to summer school during the past 17 years in an effort to obtain her B.A. Her record was poor and she still lacked a second class standing in one subject. Miss Wensel's highest unpublished mark is Psychology 58 in which she wrote a supplemental in April and obtained a mark of 58%.

It was moved by Professor Salter, seconded by Dr. Healy, that, in spite of her deficiency, Miss Wensel be recommended for her degree. The motion was put and lost.

5. Report of the School of Household Economics

Recommended for the degree of B.Sc. in Household Economics:

Brown, Hazel Jessie	Inglis, Marion Gordon
Fedunec, Elise Kathrine	Lavin, Dorothy
Feyrer, Katherine Ann	McCutcheon, Kathleen Joyce
Gowda, Claudia Stephanie	McCutcheon, Lois Melissa
Halpin, Sheila	Ross, Sydney Elizabeth
Hancock, Lois Mary	Schuh, Doris Darlene
Harper, Mildred Irene	Weston, Carol Susan
Hooper, Nancy Jean - 1st class general standing	

Bachelor of Household Economics

Mitchell, Elizabeth May

Miss Patrick moved, Miss McIntyre seconded, that the above students

be recommended to General Faculty Council for their degrees. Carried.

Failed to meet requirements for the degrees of B.Sc. and B.H.Ec.:

Bird, Phyllis Kathleen (B.Sc.)	lacks 3 seconds
Eck, Elizabeth Ann (B.Sc.)	lacks one second
Harvie, Gertrude Elizabeth (B.H.Ec.)	1 failure, lacks 2 seconds

Miss Patrick moved, Miss McIntyre seconded, that the above recommendations be reported to General Faculty Council. Carried.

6. Report of the School of Commerce

Recommended for the degree of Bachelor of Commerce:

Andru, John	Mortimer, Geoffrey Walter
Bazowski, Peter	O'Brien, George Dale
Bell, William James	Ogilvie, Richard Carl
Bercov, Sydney	Perras, Daniel
Boyko, Taras Paul	Ptolemy, David William
Buchanan, Betty Irene	Richardson, Cameron Scott
Forster, James Elliott	Rogers, Olga May
Francis, John Drummond	Romalo, Nicholas Alphonse
Gell, David Edgar	Twack, Theodore John
Glauser, Barbara Frances	Walden, Chester George
Hodgson, Douglas Edward	Williams, Joan Robin
Jacquest, Bruce Edmund	Wright, Robert Wood
Lemay, Marc Ambroise	
Losie, Robert Wallace	
McGillivray, Michael	
Matthew, Alfred Clive	
Meraw, Charles Frank	

It was moved by Professor J. D. Campbell, seconded by Dr. Hanson, that the above students be recommended to General Faculty Council for their degrees. Carried.

Failed to meet the requirements for the B. Com. degree:

Hilton, Warwick	3 failures, lacks 3 seconds
Murray, Alex Thirlwell	lacks 1 second

It was moved by Professor J. D. Campbell, seconded by Dr. Hanson, that the above recommendations be reported to General Faculty Council. Carried.

7. Matriculation

A letter addressed to the President from Dr. W. H. Swift, Deputy-Minister of Education, was read by the Chairman. It concerned the study of English in the new High School curriculum. It had originally been agreed that the 21 compulsory credits in English would be made up of five language credits in each of Grades X, XI and XII, and three literature credits in each of Grades X and XI. Dr. Swift's letter indicated that the five language credits in Grade XII would be split into three language and two literature credits.

It was moved by Professor Hanson, seconded by Professor Jones, that this Council approve this proposed change and so report to General Faculty Council. In order to clarify the situation, it was pointed out that considerable criticism had been levelled against the Department of Education because it was felt that literature was not being given enough attention. This change would help to restore the balance between language and literature.

Dr. Hanson's motion was put to the vote and carried.

8. Dr. Crosby's Motion re Matriculation

The Dean referred to the mimeographed material that had been circulated by Dr. Crosby concerning matriculation standards in this province, and asked if Council wished to entertain a motion on this matter at this meeting.

Dr. Crosby explained that next fall the curriculum will be such that only

a select group will be admitted to academic courses in Grade XII since enough electives have been introduced into the curriculum to permit students to obtain a high school diploma without taking any academic courses whatever. Only those students with B standing would be admitted to academic courses. He felt that now was the time to urge a stiffening of examinations and a return to the absolute system of grading in order to detect a decline or increase in standards. The present system indicated nothing, since 60% of the Grade XII students are regularly passed and there is no way of telling whether they have the actual knowledge or not. The Dean pointed out that there would be no possibility of this year's examinations being affected by Dr. Crosby's motion, although the 1954 examinations could be affected.

It was moved by Dr. Mayo, seconded by Dr. Scargill, that the motion be held over until the fall. Carried.

There being no further business, the meeting adjourned at 3:40 p.m.

W. H. Johns.

Dean

October 5, 1953.

Minutes of the 445th meeting of the Council of the Faculty of Arts and Science held on October 5th, 1953, at 4:30 p.m. in the Senate Chamber.

Present were:- Dean Johns in the Chair; Professors Blackley, Brown, J.D. Campbell, J.W. Campbell, Card, Collier, Collins, Cook, Cormack, Crosby, Davis, Duggan, Eaton, Folinsbee, Gowan, Grayson-Smith, Greene, Hanson, Hardy, Jones, Keeping, McIntyre, Mardiros, May, Miller, Morrison, Newbound, Nichols, Patrick, Ryan, Salter, Scargill, Scott, Smith, Stelck, Tuba, Walker, Whyte, Wonders, Wyman, and the Registrar.

The Chairman introduced Dr. William C. Wonders of the Department of Geography and referred briefly to the following changes in the Council of the Faculty of Arts and Science for the 1953-54 session:- the resignation of Dr. D.M. Healy, Head of the Department of Modern Languages, who is succeeded by Dr. E.J.H. Greene as Acting Head of that Department; Dr. H.B. Mayo's leave of absence as visiting professor at McGill University; Mr. Kreisel's continuing leave of absence; Mr. Orchard's leave of absence; and the return of Professor L.G. Thomas after a year's leave.

1. Minutes of the previous meeting

The minutes of the previous meeting were read, and it was moved by Professor Collier, seconded by Dr. Blackley, that they be approved. Motion carried.

BUSINESS ARISING OUT OF MINUTES

2. Dr. Crosby's motion in connection with Matriculation

The Chairman asked Dr. D.R. Crosby to present his motion, copies of which had already been distributed to members of Council at the previous meeting. Referring briefly to his report, Dr. Crosby moved, seconded by Dr. E.C. May, that "representation be made to General Faculty Council, recommending that, for matriculation purposes, absolute examinations should be substituted in Grade XII of the Alberta High Schools for the relative examination system in use now, in

order to help students to achieve a certain standard of knowledge and to provide better preparation for their study at the University". It was moved by Dr. Hanson, seconded by Professor Salter, "that the matter be referred to a committee for examination and report before further action was taken". There followed considerable discussion as to the justification and desirability of such a step. Other members taking part in the discussion were Professors J.W. Campbell, Wyman, Keeping, Hardy, Jones, and Grayson-Smith. In answer to a question by Professor D.E. Smith, the Chairman stated that only General Faculty Council could take action in the matter, and that it might be better to have it considered by a committee of that body. Dr. Hanson and Professor Salter then revised their motion so as to add a rider to Dr. Crosby's motion "recommending that the subject of the motion be referred to General Faculty Council with the request that this body appoint a committee to study the matter and report on it before further action is taken". The motion as amended was carried.

NEW BUSINESS

3. Report of Summer Session Revisions Committee

Dr. S.G. Davis presented the following report:-

Recommended for the degree of Bachelor of Arts:-

ARNOT, Frances Charity
 BAILEY, Charles Anthony
 * MacRAE, Ervin Douglas
 PRICE, Madge Elizabeth
 TANASIUK, William George
 WENSEL, Martha
 WOOD, Sydney Evan William James

* Dr. Davis added that Mr. MacRae was recommended for his degree on the basis of credits obtained at the University of San Francisco, which removed a deficiency in the work done at the University of Alberta.

Recommended for the degree of Bachelor of Science:-

IMESON, Joseph Dale
 MacLAUCHLAN, William Macdonald
 THOMASSEN, Henry
 WITWICKY, Peter

Recommended for the degree of B.Sc. in Household Economics:-

McNABB, Donna Jean (married name - MURRAY)

It was moved by Dr. Davis, seconded by Dr. Blackley, that the above students be recommended to General Faculty Council for their degrees.

Motion carried.

The Chairman reported to Council that the Summer Session Revisions Committee comprised Dr. Davis, Dr. Blackley, and Dr. Newbound.

4. Report of Revisions Committee on cases arising out of supplemental and deferred examinations - presented by Dr. Davis

Recommended for the degree of Bachelor of Arts:-

BELL, William Alan
 BRUMLIK, Joseph Paul
 KERR, Robert Douglas
 MAGINLEY, Margaret Lillian
 STARES, William Hamilton

Recommended for the degree of Bachelor of Science:-

CONROY, Robert Malcolm
 CORNESS, Dennis William
 EVANS, Ralph Gordon
 LEFSRUD, John Bertrand

Recommended for the degree of B.Sc. in Household Economics:-

BIRD, Phyllis Kathleen
 THOMSON, Patricia Jean

Recommended for the degree of Bachelor of Household Economics:-

HARVIE, Gertrude Elizabeth

Dr. Davis moved, seconded by Dr. Newbound, that the above students be recommended to General Faculty Council for their degrees. The motion was carried.

5. Motion regarding cases still pending

The Chairman stated that a few more cases might arise where students will become eligible for graduation on the basis of supplemental examinations written in October. Dr. D.E. Smith moved, and Dr. Collier seconded, that the Revisions Committee be empowered to refer such cases directly to General Faculty Council. Motion carried.

6. Resignation of Dr. Scargill from Revisions Committee

The Chairman announced that Dr. Scargill had asked to be relieved from his duties as member of the Revisions Committee in view of his appointment as Warden of Athabasca Hall. It was moved by Dr. Newbound, seconded by Dr. Scargill, that Mr. Gainer of the Department of Political Economy be appointed to the Committee. Motion carried.

7. Addition of Dr. E.J.H. Greene to the Committee on Honors

The Chairman announced that Dr. Healy's resignation left a vacancy on the Committee on Honors. Dr. Hardy moved, and Dr. Smith seconded, that Dr. E.J.H. Greene be appointed to the committee in place of Dr. Healy. Motion carried.

8. Orientation meeting for first year students in Arts and Science during registration week.

Dr. Cook expressed the view that quite often students seemed to lack a "sense of belonging" with respect to their Departments, and that it would be advisable to set up a committee whose task it would be to help create a closer relationship between the Faculty and the students. He suggested an orientation meeting for first year students during registration week. He stated that the question had already been raised in the Deans Council and that Dean Johns now made a practice of addressing first year students in Arts and Science on the day of registration. The Chairman suggested that, since the Heads of the various Departments

would be involved in any such plan, it might be well for them to have an opportunity of considering the matter in a committee. It was moved by Professor A.A. Ryan, seconded by Dr. Grayson-Smith, that the Heads of Departments in the Faculty of Arts and Science meet as a committee to consider Dr. Cook's proposal and report their recommendations to the next meeting of the Council. Motion carried. At the suggestion of the Chairman Dr. Hardy agreed to act as convenor of such a committee.

9. Special cases

Mr. William Philip. The Chairman read a letter from Mr. Philip asking permission to take seven courses this year in order to prepare himself for admission to the Faculty of Law in the combined program by September 1954. Dr. Newbound moved, seconded by Dr. Cormack, that the request be granted. The Chairman explained that Mr. Philip had taken two courses in the Evening Division last year and one during the summer session of 1953 and obtained very good marks. The motion was carried.

The Chairman raised the question (for discussion at the next meeting) whether Council should approve the practice of allowing students to register in the combined program leading to the degrees of B.A. and LL.B. by Evening Division with or without summer session and intramural attendance.

Miss Eleanore I. Pepin. The Chairman read a letter from Miss Pepin asking to be given credit in Zoology 1 on the basis of her year's work, since she had become ill while writing her final examination and had been unable to write a supplemental examination. Dr. Miller gave the opinion that, if Miss Pepin had finished her paper, she would probably have achieved first class standing. He moved, and Dr. Moore seconded, that she be given the mark of 75 for her year's work. Motion carried.

10. New courses in Physics

It was moved by Dr. Grayson-Smith, seconded by Dr. Scott, that Council

approve two new courses in Physics, namely

106. - Theories of the Solid State

107. - Advanced Thermodynamics, and Statistical Mechanics.

He explained that these courses were intended to provide for the needs of a student who is now working for his Ph.D. in the Physics Department, and that no extra expense to the University would be incurred. Motion carried.

11. Patterns, particularly as affecting candidates for admission to the Faculty of Medicine

It was agreed that this item be deferred until a later meeting.

12. Appendix to Examination Return

It was moved by Dr. Davis, seconded by Dr. May, that the blue sheets attached to the examination returns be amended to make provision also for the instructor's consent to the raising of a mark to second class standing. Professor Salter suggested that the blue sheet could be eliminated by including the information it gives in the return sheet itself. Mr. Taylor pointed out that such a change would require the approval of the other Faculties as well. Professor Jones stated that, in principle, he was opposed to any of his marks being raised at all, and that, if the Revisions Committee wished to do this, he preferred to be asked in each individual case. The motion was carried.

13. Other Business

The Chairman then read a letter from Mr. G.V. Ferguson, calling attention to the availability of Nuffield Fellowships for the coming year.

The Chairman also drew attention to a notice by the National Employment Service that they proposed to register applicants from the Faculty of Arts and Science on October 6th, and invited members of Council to bring this to the attention of students during their lectures the next day.

The Registrar expressed his gratitude for the assistance of those who had helped with registration.

The meeting adjourned at 6:15 p.m.

Walter H. Johns.

Dean

November 2, 1953.

Minutes of the 446th meeting of the Council of the Faculty of Arts and Science held on November 2, 1953 at 4:30 p.m. in the Senate Chamber.

Present were:- Dean Johns in the Chair; Professors J.W. Campbell, Collier, Collins, Cook, Crosby, Davis, Duggan, Grayson-Smith, Greene, Hanson, Hardy, Harris, Jones, Keeping, McIntyre, Mardiros, May, Miller, Moore, Moss, Newbound, Nichols, Patrick, Rees, Salter, Scott, D.E. Smith, Spearman, Strickland, Walker, Warren, Wonders, Wyman, and the Registrar.

1. Minutes of the previous meeting

It was moved by Professor Keeping, seconded by Dr. Newbound, that the minutes of the previous meeting be approved as circulated. Carried.

BUSINESS ARISING OUT OF MINUTES

The Chairman reported that Dr. Crosby's motion in connection with Matriculation had been referred to General Faculty Council and, thence, to a committee of that body. The Chairman also reported that the motion concerning the examination return was not approved in General Faculty Council, but had been amended to the effect that the blue sheets were to be abolished completely and a special symbol was to be used on the return sheet itself to indicate the instructor's consent to the raising of a mark to a pass or to second class standing. The Registrar stated that the kind of symbol had not yet been decided upon and that he would appreciate receiving suggestions.

The Chairman informed the members of Council that the material contained in the agenda and pertaining to the recommendations from the Honors Committee (Item 6), the proposed revision of the Chemistry pattern (Item 7), and the calendar changes suggested by the Department of Modern Languages (Item 8) would not be included in the mimeographed draft minutes of this meeting and that, therefore, copies of the appendices to the agenda should be kept for future reference.

November 2, 1953.

2. Addendum to reports of Revisions Committees on graduating students

Dr. Davis read the names of the following students who had become eligible for the degree of B.Sc. on the basis of supplemental examinations since the last meeting of the Council of the Faculty of Arts and Science, and had already received their degrees on October 31, 1953:-

CHRISTIE (formerly KRYSKOW), Casimir Edward Joseph
HOMINIUK, Harry Michael
SWITZER, Robert James.

3. Report of Committee on Orientation Meeting for first year students in Arts and Science during registration week (Dr. W.G. Hardy)

Dr. Hardy reported that the Committee recommended to the Council of the Faculty of Arts and Science

a) that those Departments which wish to do so prepare, by May of each year, departmental information sheets for freshman students similar to those at present issued by the Department of Philosophy and Psychology, but to include also the office location of each Department; these sheets then to be mimeographed and distributed to prospective students, guidance officers etc. by Dr. Cook's office;

b) that, in September of each year, each Department be informed by Dr. Cook's office of prospective students interested in the courses offered by it with the pertinent information about such students;

c) that it be suggested to the Dean of the Faculty of Arts and Science that at 2 p.m. on Monday of Registration Week a meeting of all freshman students in Arts and Science, exclusive of Honors students, be held; that at this meeting the Dean give an explanation in brief of what is involved in the different Patterns, and that, further, for those students who have not by this time decided on their Patterns, a further opportunity for questions and explanation be given. It is suggested that to each student at such a meeting a copy of the information sheet for each Department be made available, and that a plan of the location of all departmental offices be prepared and distributed.

Dr. Hardy then moved, and Dr. Grayson-Smith seconded, that the above suggestions be approved by the Council of the Faculty of Arts and Science. Carried.

4. Patterns, particularly as affecting candidates for admission to the Faculty of Medicine

The Chairman read out to Council a portion of a letter which he had sent to the Departments concerned in July of this year:-

"Some members of the Faculty of Arts and Science have from time to time expressed concern about the lack of flexibility in certain B.Sc. patterns. This question has become more acute at the present time for two reasons.

The first is in connection with the students in the Faculty who are preparing for admission to the Faculty of Medicine. The second is due to the fact that some changes have already been made in anticipation of the alteration in the Mathematics of grade XII and other changes still remain to be made.

Most candidates for admission to the Faculty of Medicine have in the past elected either the Chemistry pattern or the Zoology pattern. Recently, however, a practice has grown up by which students register in the Chemistry pattern in the first year and then seek a transfer to the Zoology pattern. One of the objects of this change is to avoid the necessity of taking Physics 46 in the second year of the Chemistry pattern and of the choice between Geology 1 and Mathematics 45 in the second year of the Zoology pattern. These requests for transfer from one pattern to another are perfectly legitimate, and it is not possible to refuse them. However, the result has been that certain candidates for Medicine have by this means set up for themselves a Pre-Medical pattern which shows some indication of becoming standard. This procedure is not entirely satisfactory either to the Faculty of Arts and Science or the Faculty of Medicine, since it permits students to have more first year courses in their first two years at University than they should have or normally would have. One way of discouraging this practice might be to liberalize slightly the prescriptions of certain patterns. It may be argued that such revision should not be made simply because of a limited group of students, but it is felt that the matter may merit some consideration, perhaps by a committee of the Council of the Faculty of Arts and Science."

In commenting on the replies received to this letter the Chairman pointed out that the Faculty of Medicine were not seriously concerned about the lack of adherence to patterns on the part of candidates for admission to that Faculty. He did, however, feel that it was a matter of some concern to the Faculty of Arts and Science whether these students should be permitted to make a practice of departing from the Patterns. He then asked (a) if Council would agree to his giving approval to special registrations to students who apply for them in order to prepare themselves for admission to the Faculty of Medicine or any other professional school, and (b) if Council would authorize him to appoint a standing committee which would review the contents of the patterns yearly. Dr. Collier moved, seconded by Dr. Wyman, that both these suggestions be approved.

Professor Salter asked what the requirements for admission to Medicine were and was informed that they were "the satisfactory completion of at least two years of University work after Senior Matriculation including full university courses in Organic Chemistry, Inorganic Chemistry, Physics, and Zoology".

77
November 2, 1953.

Dr. D.E. Smith expressed the view that students should be expected to adhere to the patterns, and Dr. R.B. Miller stated that, when the revisions now approved were put into effect, requests for special registrations might be expected to decrease substantially. Motion carried.

NEW BUSINESS

5. Department of Political Economy, changes in designation of courses and staff

Dr. Hanson moved, seconded by Dr. Collins, "that the term "Economics" be substituted for "Political Economy" in the university calendars wherever the latter is used to describe courses, to designate titles of staff members, and to describe the field now designated "Political Economy". Dr. Hanson explained that the effects of the passage of the motion would be as follows:-

1. The name of the Department would remain unchanged.
2. The three subjects under the jurisdiction of the Department would be Economics, Political Science, and Geography, instead of Political Economy, Political Science, and Geography.
3. Courses now labelled Political Economy would be entitled Economics, e.g. Political Economy 1 would become Economics 1.
4. Staff members who are now designated as instructors in Political Economy would be listed as instructors in Economics, e.g. an Assistant Professor of Political Economy would be designated "Assistant Professor of Economics".

Dr. Hanson stated that the main reasons for the suggested change were as follows:-

1. The term "Economics" is in almost universal use in other universities in labelling courses called "Political Economy" at the University of Alberta.
2. The change would avoid confusion regarding the difference between Political Economy and Political Science.
3. There are administrative advantages - e.g. brevity - in the term "Economics".

The motion was carried.

6. Recommendations from the Honors Committee

It was moved by Professor Grayson-Smith, seconded by Dr. Walker, that Council approve the following statement, to replace par. 3, p. 35 of the 1953/54 Arts and Science calendar:-

"Students registering for their first year will select a particular subject of concentration, and will register either in the Pattern of the General Course or in the Honors Program, as prescribed for that subject."

The General Course leads to a B.A. or B.Sc. degree in three years. It is designed to give students a general education, with a certain amount of concentration on one or two subjects. In their second and third years students will register as prescribed for the pattern selected in the first year, and their choice of courses must be approved by the department in which they are concentrating. A pattern may be changed with permission of the Dean. Pattern programs are outlined on later pages of this calendar.

The Honors programs lead to the B.A. or B.Sc. degrees "with Honors" in a particular subject or subjects, in four years. They are designed to provide specialization in that subject or subjects, together with longer training, as well as the higher standard suggested by the term "Honors". A student need not commit himself in his first year, and may register in the appropriate pattern of the First Year of the General Course. If he obtains a sufficiently high standing, and is recommended by the department concerned, he may then commence the corresponding Honors program in the Second Year. A student who wishes to register in an Honors program in the first year must obtain the approval of the department in which he plans to specialize. Outlines of Honors programs, and regulations concerning Honors courses, are given on later pages of this calendar."

(NOTE: It is recommended that paragraph (1) above be in blackface type.)

Professor Salter felt that the patterns as well as the Honors programs were too rigid and made it almost impossible for the student to get a general education at this University; for those who were desirous of getting a broader education a more general program ought to be devised. Dr. Hardy suggested that this might be a task for the standing committee referred to under 4.) above. The motion was carried.

It was moved by Professor Grayson-Smith, seconded by Professor Jones, that Council approve a revised statement on "Degrees with Honors in the Faculty of Arts and Science" as follows:-

"Degrees with Honors in the Faculty of Arts and Science.

A student with approved qualifications may proceed, under the supervision of one of the departments, to the degree of Bachelor of Arts or Bachelor of Science with Honors, by following a course of study which is largely concentrated on one or two subjects. The time required for an Honors degree is four years from senior matriculation, and the course may be interrupted only by special permission of the Council of the Faculty upon the recommendation of the Committee on Honors. The courses in Honors are administered by the Dean and a committee of the Faculty of Arts and Science.

November 2, 1953.

A student is formally admitted to an Honors course at the beginning of the second year, on recommendation of the department concerned. Application must be made through the head of the department to the Dean, at the time of registration. An applicant must have a high standing in his first year, especially in the junior courses pre-requisite to advanced work in his chosen subject. A student who decides during his first year to apply for admission to Honors should consult the head of the department concerned at the time he makes his decision.

Although students may proceed from the first year in a pattern of the General Course to second year Honors in the same subject, some departments provide a special first year program for students who are contemplating Honors. Permission to take one of these special programs is granted to students with high matriculation standing, on recommendation of the department concerned. Application for this privilege should be made through the head of the department at the time of registration. A student who, in his first year, takes one of these special programs and fails to make the standing necessary for admission to Honors, or decides not to attempt Honors, must continue in an appropriate pattern of the General Course, and must subsequently complete all the requirements of that pattern. The special first year programs are so related to the corresponding first year General Course patterns that a student can proceed in this way without penalty, by some adjustment in the second and third years.

Advancement from second year to third in an Honors course, or from third year to fourth is by recommendation of the department concerned, for which an average of 65%, or even higher, is usually required. A student who is not recommended to continue Honors at the end of his second year, but who has no failures, will be transferred to the third year of the General Course. He must arrange his third year program so as to comply with the general regulations.

A student who is not recommended to continue Honors at the end of his third year, or who fails to complete the requirements for Honors in his fourth year, will be granted a pass degree forthwith, provided that the courses he has taken and the standing attained therein comply with the general regulations for the General Course. Otherwise he may be required to take one or more additional courses in a subsequent summer or winter session. A student who, for any reason, is unable to return for the fourth year may apply for a pass degree under the same conditions.

In all years a student's program must be approved by his department, subject to the following general provisions:

1. A student is not permitted to confine his studies to one of divisions A, B, C, but must, during his first three years, take at least three courses outside the division to which his Honors subject belongs.
2. In the third and fourth years a good deal of latitude is permitted in order to meet the needs of individual students. A student may choose whether to concentrate closely on the one subject, or whether to widen his field of study. In the latter case he will not be required to take, over the four years, more than ten courses in the subject of concentration.

At the end of the fourth year, some departments require candidates for Honors to take a final comprehensive examination as well as examinations in the courses prescribed for the year; other departments set final comprehensive examinations covering all the work of the senior years, but do not require examinations in courses taken in the final year.

Honors are awarded in two classes, first class Honors and Honors. For first class Honors, an average of 80% is required; for Honors, 65%. In awarding Honors, the entire university record of the student may be considered.

Candidates who complete requirements for the Senior Diploma of the Faculty of Education after qualifying for an Honors degree in Arts and Science will receive an Interim High School Certificate with specialist standing in Honors subjects.

The prescriptions of the departments for courses in Honors follow."

Referring to the paragraph marked (2.) of the statement, Professor Keeping pointed

out that in the Department of Mathematics Honors students must concentrate for a number of reasons, and that thirteen courses in the subject of concentration over the four years were required. The Chairman stated that the Committee were aware of this fact which applied to a few other Departments as well, e.g. Modern Languages and Classics; he recommended the inclusion of a footnote pointing this out where necessary. The motion was carried.

It was moved by Dr. Walker, seconded by Dr. Davis that the following revision of the Honors program in Chemistry be approved:-

"First Year: Chemistry 40, Chemistry 42, Mathematics 1, Physics 40, English 5 or 2, Physical Education.

Second Year: Chemistry 54, Chemistry 58, Mathematics 40, Physics 43, one special Division A or B course.

Third and Fourth Years:

The equivalent of nine full courses will be required. German 1(b), Chemistry 102, Chemistry 103, and four half courses chosen from Chemistry 105, 106, 107, 109, 112 must be included. One of the nine courses must be selected from the Special A or B courses for B.Sc. students.

In addition to the regular course examinations, candidates for Honors may be given one or more oral or written examinations (in the field of Chemistry) at the end of the fourth year.

NOTE: All options shall be selected after consultation with the Department of Chemistry.

Attendance at the Journal Club, which meets once a week, is required in the fourth year.

November 2, 1953.

Explanatory Notes:

1. Physics 40 and 43 are now required in the first and second years respectively, eliminating any optional choice.

2. Nine courses rather than eight as previously required in the third and fourth years, were preferred because:

- (a) This trend appears to be followed by other Science Honors courses (e.g. Botany, Biology, Geology, Mathematics, Physics).
- (b) The student has opportunity in the choice of three subjects, to obtain courses such as Biochemistry 50, Mathematics 55, Physics 54, Bacteriology 60.

3. Mathematics 55 is not a required subject, since the new Mathematics 40 would cover some of the present Mathematics 55. Mathematics 55, containing much of the present Mathematics 57, would be suggested to those Honors students more inclined to Mathematics.

4. Mathematics 1 and 40 are both 5 hour per week courses.

5. German 1(b) in the third or fourth year requires 3 hours per week. German in the third year is preferable, as it might be required for literature searches in Chemistry 110."

Motion carried.

It was moved by Dr. Greene, seconded by Dr. Hardy, that the following revision of the Honors program in Modern Languages and Literature be approved:-

"Department of Modern Languages

At present the Department offers courses in French, German and Russian. Although the main emphasis for Honors in Modern Languages is laid on French and German, several other programs are possible, such as French and Latin, German and Russian, French and Russian, French and English.

Students may register in Honors in the first year or may enter in the second year from the Foreign Language pattern. They should consult the Department before choosing courses, and in all cases departmental approval of the program chosen is required before registration.

Honors in Modern Languages and Literature

If French is taken as the major subject and German as the minor, the following is a sample program for Honors in Modern Languages:-

First Year: French 2, German 1, English 2, one option from Division B, one option from Division C, Physical Education.

Second Year: Two senior French courses, one senior German course, one option from Division A, one option from Division B, French lab. hour (French 102A).

Third Year: Two senior French courses, one senior German course, one option from Divisions A or B, General Linguistics, French lab. hour (French 102B).

Fourth Year: Two senior French courses, one senior German course, one free option, one option from another department, French lab. hour (French 102C).

NOTE: If German or Russian is chosen as the major subject, the proportions of this program will be changed accordingly, and the German or Russian lab. hour required in place of the French.

A program like this is recommended to those students wishing to specialize in a foreign language in order to embrace an academic career, particularly to those intending to go on to post-graduate work.

Deviations from the standard program may be made, with departmental approval, to provide for the study of a third foreign language by students preparing for other careers, and for special cases. As a general rule, students entering with a normal matriculation will not be permitted a third modern language until they have laid a firm foundation in the first two.

Apart from the regular course examinations at the end of the fourth year, students may be required to take oral examinations in the languages and write a comprehensive examination, or examinations, on the work of the last three years.

Students intending to specialize in Modern Languages are advised to take as much Latin as possible in the course of their High School studies."

Motion carried.

It was further moved by Dr. Greene, seconded by Professor Hardy, that the following proposed revision of the Honors program in French and Latin be approved:-

"Honors in French and Latin

First Year: French 2, a Latin course, Classical Survey course 50 or 51, two options, Physical Education.

Second Year: Two senior French courses, a Latin course, Classical Survey course 50 or 51, one option from Division A or B, French lab. hour (French 102A).

Third Year: Two senior French courses, a Latin course, an option from Division A or B, General Linguistics 105, French lab. hour (French 102B).

Fourth Year: Two senior French courses, a Latin course, a free option, a second option (neither French nor Latin), French lab. hour (French 102C).

Students will choose courses in consultation with both Departments."

Motion carried.

November 2, 1953.

It was then moved by Dr. Greene, seconded by Professor Jones, that the following proposed program for Honors in French and English be adopted:-

"Honors in French and English

First Year: French 2, English 2, History 10, an option from Division B or another language, an option from Division C, Physical Education.

Second Year:- Two senior French courses; two senior English courses, an option from Division A or B, French lab. hour (French 102A).

Third Year: Two senior French courses, one senior English course, one option from Division A or B, General Linguistics 105, French lab. Hour (French 102B).

Fourth Year: Two senior French courses, one senior English course, two options, French lab. hour (French 102C).

A similar program may be arranged for those wishing to take Honors in German and English. In either case, students will choose courses in consultation with both Departments.

Students will note that the Honors English program allows them, in consultation with the Department of English, to choose French as a minor subject."

Dr. Greene explained that this program had been designed for the needs of students without a definite educational aim or for students who want to become teachers.

Motion carried.

7. Chemistry Pattern, proposed revision

Dr. Walker moved, seconded by Dr. Davis, that the proposed revision of the

Chemistry pattern be approved as follows:-

"First Year: Chemistry 40, Mathematics 1, Physics 40, one of Botany 1, Zoology 1, Geology 1, Geography 1, English 5 or 2, Physical Education.

Second Year: Chemistry 42, Chemistry 58, Mathematics 40, one of Botany 1, Zoology 1, Geology 1, Special A or B course.

Third Year: Chemistry 54, Special A or B course, an option, Physics 43, an approved C option."

Carried.

8. Modern Languages, calendar changes

Dr. Greene moved, and Dr. Hardy seconded, approval of the proposed course

changes as listed:-

"Proposed course changes in the Department of Modern Languages"

1. French 82 to be deleted and the description of French 101 to be amended to read as follows:-

Origins of the French language. A study of the earliest texts; La Chanson de Roland; Le Miracle de Théophile; La Farce de Maître Pathelin; medieval lyric poetry; Francois Villon.

2. Phonetics 106 to be deleted and the description of French 102A to be amended to read:-

Phonetics and grammar.

3. French 40 to be deleted and for it substituted, under Senior Courses:

French 50. Second Year. French Authors and Grammar. 3 hrs.

A senior course for those whose program allows them only two French courses and who do not want an intensive study of one period of literature. The course consists of a general review of grammar, a rapid survey of French literature, study of several representative French authors, oral and composition work based on the texts read. Prerequisite: French 2, or a first class mark in French 1.

4. French 60 to be amended to read:

Realism. This course deals with the definition and history of Realism, the development of the novel from Constant to Flaubert, and the poetry of Baudelaire.

5. A new course, French 61, to be approved, the title and description to be as follows:-

French 61, Prose and Poetry of the late Nineteenth Century.

A study of Naturalism in the novel and of the Parnassian and Symbolist schools of poetry.

6. French 60, 61 (if approved) and 64 to be offered in alternate years.

(Note: As French 51, 57, and 107 are now offered in alternate years, this will make it possible for these six courses to be distributed equally among those members of the Department giving senior French courses. Thus French 61 will not require any additional staff.)

7. Language lab. hours:

(a) the notation under French 2 to read:

3 hrs. lect., 1 hr. lab.

(b) senior lab. hours in German and Russian, to correspond to French 102A, B, and C, to be approved, the description to be as follows:

German 105. Practical Study of the German Language. 1 hr.

November 2, 1953.

This course aims to give students practical training in the use of the German language. It will include phonetics, intensive oral practice using the facilities of the language laboratory, and systematic vocabulary building. Students in their second, third and fourth year of the Honors program will be required to register in 105A, 105B, and 105C respectively.

Russian 102. Practical study of the Russian language. 1 hr.

In this course of practical training special attention will be paid to pronunciation, syntax, and methodical vocabulary building. Facilities of the language laboratory will be used. Students will be required to take Russian 102A in the second year of their Honors program, Russian 102B in the third, and Russian 102C in the fourth.

8. The last three lines of the description of German 1(b), beginning "Registration is restricted", to be deleted and for them substituted the following:-

Students in these categories will be given credit after one year, but are strongly recommended to take the sequent course (German 40, Science Section) in which advanced scientific texts are read.

Science students in the general course may also register in German 1(b), but will be required to complete successfully a second year of German (German 40b) before full credit may be granted in German 1."

Carried.

9. Deletion of lists of courses

The Chairman drew attention to the fact that the list of courses as appearing on pp. 36 - 38 of the calendar was unsatisfactory in its present form and suggested that it be replaced by the one enclosed with the agenda. Dr. Smith moved, seconded by Dr. Collins, that this suggestion be approved. Some discussion arose on the present course numbering system, and it was felt that the draft paragraph beginning "Courses numbered with single digits....." should be reworded and brought forward at the next meeting. As an amendment to the motion, Dr. Hardy moved, seconded by Dr. Scott, that this be done. The amendment was carried.

The Chairman then suggested that the following sentence be added to paragraph 5, page 35:- "Students who have this difficulty, however, are urged to secure credit, wherever possible, through the Correspondence Branch, Department of Education, Edmonton.", and that the following sentence be inserted in paragraph 6 on the same page:- "Special cases are dealt with by the Council of the Faculty on the recommendation of the First Year Committee". Dr. Hanson moved, and Professor Nichols seconded, that these changes be approved. Carried.

Dr. Cook pointed out that "Correspondence School Branch, Department of Education", is the correct designation of that institution, and Council agreed to this correction.

Dr. Cook felt that the whole calendar in its present form was rather difficult for students to understand and that it would be desirable to remedy this, if possible.

10. Other Business

On behalf of the Registrar, the Chairman handed out mimeographed sheets to be filled out by those Departments who wished to consolidate their Christmas examinations.

The Chairman then distributed copies of a Memorandum that had been received from the National Woodrow Wilson Fellowship Program setting out the terms and nomination procedure of that Program.

The Chairman then informed Council of a letter that had been received from the National Research Council stating that the Merck Postdoctoral Fellowships in the Natural Sciences for Canada will not be awarded for the year 1954-55.

Professor Jones suggested that in the future arrangements be made with the power house to have the fans kept on after five o'clock on the first Monday of each month for the time of the meeting of the Arts Faculty Council.

The meeting adjourned at 6:15 p.m.

Walter H. Johns

Dean

December 7, 1953.

Minutes of the 447th meeting of the Council of the Faculty of Arts and Science held on December 7, 1953 at 4:30 p.m. in the Senate Chamber.

Present were:- Dean Johns in the Chair; Professors Blackley, Brown, J.W. Campbell, Collier, Collins, Cook, Crosby, Davis, Duggan, Eaton, Folinsbee, Glyde, Gowan, Grayson-Smith, Greene, Hanson, Hardy, Harris, Jones, Keeping, Mardiros, Miller, Moore, Morrison, Newbound, Patrick, Phibbs, Ryan, Salter, Scargill, Scott, D.E. Smith, Spearman, Stelck, Tuba, Walker, Whyte, Wyman, Wonders, and Mr. Cairns.

1. Minutes of the meeting of November 2, 1953

It was moved by Dr. Wyman, seconded by Dr. Moore, that the minutes of that meeting be approved as circulated. Dr. Greene suggested that the word "educational" in the last sentence of the last paragraph of Item 6. be changed to "vocational". With that amendment, the motion was carried.

BUSINESS ARISING OUT OF MINUTES

2. Deletion of lists of courses

The Chairman again submitted to Council the statement designed to replace par. 4, page 35, and the list of Courses and Prerequisites on pages 36 to 38 of the calendar. It was moved by Dr. Gowan, seconded by Dr. Harris, that the statement be approved. After some discussion, during which an improvement in wording was proposed by Professor Salter and agreed upon by Council, the following statement was submitted for the vote:-

"The courses in Arts and Science are classified in three divisions as follows:-

Division A.

Art	Greek
Classics in English 50 and 51	Hebrew (St. Stephen's College)
Drama	Latin
English	Music
French	Old and New Testament Literature
German	Russian

"Division B

Ancient History (Classics 52, 53,
54, 55, 56 and 57)
Christian Apologetics (St. Joseph's
College)
Economics
Education
Geography 50
History
Philosophy
Political Science
Psychology
Sociology

Division C

Bacteriology (including Microbiology)
Biochemistry
Biology
Botany
Chemistry
Entomology
Genetics
Geography 1 (Physical Geography)
Geology
Mathematics
Physical Science
Physics
Physiology
Zoology

Courses numbered from 1 to 10 inclusive are normally junior courses without university prerequisite and are open to first year students. Courses numbered in the 40's are usually given junior credit, but may sometimes be accepted as senior courses. Those numbered 50 or over, but under 100, carry senior credit, while those numbered 100 or higher are open mainly to Honors and Graduate students. There are certain exceptions to the above rules, and, for further information, particularly in the matter of prerequisites, students are advised to consult the section of the calendar containing the detailed description of courses."

Motion carried.

NEW BUSINESS

3. Department of Biochemistry(a) Revised Program for Honors

It was moved by Dr. Collier, seconded by Dr. Tuba, that the following Honors program in Biochemistry be approved:-

"First Year:- Chemistry 40, Chemistry 42, Mathematics 1, Zoology 1, English 2 or 5 (or language of matriculation), Physical Education.

Second Year:- Biochemistry 50, Chemistry 58, Mathematics 40, Physics 1 or 41, one from Division A or B.

Third Year:- Biochemistry 52 (half course), Biochemistry 54 (half course), Chemistry 54, Physiology 61, an option (Zoology 51 recommended), one from Division A or B.

Fourth Year:- Chemistry 102; two of the following half courses: Biochemistry 101, 102, 103, 104; two options.

December 7, 1953.

Dr. Collier explained that the following changes were made:-

- 1) Mathematics 1 in first year, and Mathematics 40 replacing Botany in the second year.
- 2) English 5 in place of the A or B option in first year.
- 3) Microbiology 60 removed from the fourth year prescription and replaced by an open option, in line with the policy of making the senior years more flexible.

Dr. Whyte expressed his concern at the deletion of Botany in the second year, and there was some discussion on the necessity of Mathematics 40 as a prerequisite for Chemistry 54. It was pointed out that Botany could still be taken as the option in the third year (where Zoology 51 is recommended). Another alternative suggested was a combined course in Zoology and Botany in the first year. The motion was carried.

(b) Revision of Biochemistry 104

Dr. Collier then moved, seconded by Dr. Tuba, that the following revision of the above course be approved:-

104. Recent Advances

3 hrs. lect. (first half)

A.G. STEWART

A lecture course on topics of current interest in Biochemistry, with reading of original literature. Topics to be selected include:- metabolic interrelationships, isotopes, chemotherapy, biochemistry of cancer, lipid metabolism.

Prerequisite:- Biochemistry 50.

The Chairman added that the revision had already been approved by General Faculty Council subject to its approval by the Council of the Faculty of Arts and Science. Motion carried.

4. Department of Fine Arts - Numbering of courses in Diploma Program in Art

Professor Glyde moved, seconded by Dr. Hanson, that the following numbering of Fine Arts courses be approved:-

First Year:- FUNDAMENTALS OF DRAWING AND PAINTING:

- | | |
|---------------------------------------|--------|
| (1) Fundamentals of Drawing | Art 40 |
| (2) Drawing from Memory and Knowledge | Art 44 |
| (3) Fundamentals of Painting | Art 42 |

PRINCIPLES OF DESIGN AND COMPOSITION:

- | | |
|--|---------------------|
| (4) Study of Historic Ornament, Costume, Abstract Forms, Elements of Planning, Patterns, Colour, Tone Values, Textures, Museum Study | Art 43
(Ed. 132) |
|--|---------------------|

SCIENCE:

- | | |
|----------------------|--------|
| (5) Theory of Colour | Art 45 |
| (6) Anatomy | Art 47 |

Second Year:-

- | | |
|---|---------------------|
| (1) Advanced Drawing | Art 54 |
| (2) Life Painting | Art 50 |
| (3) Art History and Appreciation - Survey of Art from the Primitive Period to the Renaissance | Art 51 |
| (4) Still Life | Art 52 |
| (5) Pictorial Composition - a continuation of Principles of Design and Composition and Drawing from Memory and Knowledge as presented in First Year of Course in Art, i.e. Art 43 (Ed. 132) | Art 53
(Ed. 332) |
| (6) Theory of Colour | Art 55 |

Third Year:-

- | | |
|---|--------|
| (1) Life Drawing | Art 64 |
| (2) Advanced Painting | Art 62 |
| (3) History and Appreciation - Survey of Art in Europe from the Renaissance to Modern Times (formerly Art 52) | Art 61 |
| (4) Composition and Painting Techniques | Art 63 |
| (5) Illustration and Book Decoration | Art 66 |
| (6) Mural and Decorative Painting | Art 67 |
| (7) Landscape Painting - Banff School (Summer Session) | Art 68 |

Fourth Year:-

- | | |
|--|--------|
| (1) Life Drawing | Art 74 |
| (2) Life Painting | Art 72 |
| (3) Pictorial Composition | Art 73 |
| (4) Techniques | Art 75 |
| (5) Illustration and Book Decoration | Art 76 |
| (6) Mural Painting and Decorative Painting | Art 77 |
| (7) Landscape Painting - Banff School (Summer Session) | Art 78 |

Motion carried.

5. Department of Geology - Changes in Pattern and in the Honors Program

Dr. Folinsbee moved, seconded by Dr. Stelck, that the following calendar changes, which were made necessary due to the introduction of Mathematics 1, be approved:-

December 7, 1953.

Geology Pattern - First Year:- Mathematics 40 to be changed to Mathematics 1.

Honors Course - First Year:- Mathematics 40 to be changed to Mathematics 1;

Physics 40 to be changed to Physics 41
(this is an error in the present calendar).

The motion was carried, but Dr. Wyman wished to register his disapproval of the change. He felt that Mathematics 40 was a necessary prerequisite for Chemistry 54 and that deleting it would work a hardship on those students taking that course. His view was shared by Dr. Scott. Dr. Davis, the instructor in Chemistry 54, stated that a number of students registered for the course each year without having secured prior credit in Mathematics 40.

6. Department of Mathematics - Revised Program for Honors

Dr. J.W. Campbell moved, and Dr. Keeping seconded, that the revised Honors Program in Mathematics be approved as follows:-

First Year:- Mathematics 1, Mathematics 45, Physics 40, C option, A or B option.

Second Year:- Mathematics 40, Mathematics 41, Mathematics 50 or 51, C option, A or B option.

Third Year:- Mathematics 50 or 51, Mathematics 55, Mathematics 61, two options.

Fourth Year:- Mathematics 102, Mathematics 103, two options, A or B option.

NOTE:- The program selected must be approved by the Department of Mathematics. Students who hope to do graduate work in Mathematics are strongly advised to select three of the options in third and fourth year from courses offered by the Department; some of these may be in Mechanics, Hydrodynamics, Quantum Theory, Statistics, or other branches of Applied Mathematics. Students who hope to enter Theoretical Physics are advised to choose their options in the Department of Physics and in Applied Mathematics.

Some discussion arose as to whether the A or B option in the first year should be changed to an A option only, or whether English 2 or 5 should be required instead. It was felt that English 2 or 5 was definitely desirable, but that Honors programs should not be made too rigid, but should rather be left to the discretion of the Department concerned. The motion was carried.

Description to read:-

Advanced Laboratory

7 hrs. lab.

Experimental methods in spectroscopy and atomic physics, introduction to modern laboratory techniques.

(Restricted to Honors students in Arts and Science, and Engineering Physics. This course may be divided between the third and fourth years, depending upon the program of lecture courses.)
Prerequisite or corequisite:- Physics 54.

Physics 100 Delete "3 hrs. lab."

The purpose of the last two changes is to give the Department more latitude in the choice and arrangement of laboratory experiments for Fourth Year Honors students, by combining the laboratory work of Physics 100 with that of Physics 55. The extra hour per week is for the instruction in shop-work, glass-blowing, etc., which has been given on a voluntary basis for several years.

In the ensuing discussion it was pointed out that there would be certain disadvantages in the proposed course Physics 55 - Advanced Laboratory - 7 hrs. lab; it would complicate matters for the Registrar and, possibly, for certain students, particularly those from the Department of Chemistry who would like to secure credit in Physics 55. Dr. Grayson-Smith and Dr. Scott then withdrew that part of the motion pertaining to Physics 55 as well as the sentence beginning "The purpose of the last two changes ...", in order to give the matter further consideration. Instead the motion contained a statement replacing "3 hrs. lab," under Physics 100 by "4 hrs. lab." The revised motion was carried.

(b) New Course

Dr. Grayson-Smith moved, seconded by Dr. Gowan, that a new course, Physics 58, be approved as follows:-

Physics 58 Astrophysics

3 hrs. lect.

Stellar spectra and their interpretation, theories of stellar constitution, cosmological theories, spectroscopy of the planets and theories of the solar system, terrestrial magnetism, radio-astronomy and other modern advances.

Prerequisite:- Physics 1 or 40 or 41, Mathematics 40.
(Offered in alternate years).

Dr. Grayson-Smith explained that this course is to provide another senior option of general interest, with not too many prerequisites, and that the

December 7, 1953.

Department proposed to alternate it with Physics 48 (Meteorology), which has largely outlived its usefulness. The motion was carried.

(c) Changes in Physics Pattern

Dr. Grayson-Smith moved, seconded by Dr. Scott, that the following changes in the Physics pattern be approved:-

First Year:- Substitute Mathematics 1 for Mathematics 40.

Second Year:- Add note "(1945-55 only)".

Motion carried.

Dr. Grayson-Smith then moved, seconded by Dr. Newbound, that the addition of Mathematics 45 to Division C options be approved. Dr. Whyte pointed out that Physical Science students could complete their studies without having to take either Botany or Zoology, and again expressed his concern at this fact. The motion was carried.

(d) Revised Program for Honors

Dr. Grayson-Smith moved, seconded by Dr. Scott, that the Honors Physics program (transitional description for 1954-55 calendar) for the first two years be approved as follows:-

First Year:- (for students matriculating in 1954 or later A)
Physics 40; Mathematics 1; Chemistry 40; English 2 or 5S;
Mathematics 45; Physical Education.

- * Students who have taken the equivalent of Mathematics 1 at matriculation should consult the Department of Physics concerning a special First Year registration.

Second Year:- (1954-55 only)
Physics 42, Physics 46, Mathematics 55, Mathematics 41 or 56,
an option from Division A or B.

Carried.

Dr. Grayson-Smith then moved, seconded by Dr. Scott, that the third and fourth years be approved as follows:-

Third and Fourth Years:-

A total of 10 lecture courses, which must include the following:- Physics 53, 54, 56, 101, 102, Mathematics 57, an option from Division A or B (in the third year). The additional options are usually selected from Physics, Mathematics, Chemistry, Geology, Engineering, but other subjects may be permitted under special circumstances.

In addition students must take the laboratory course, Physics 55, and Fourth Year students are expected to take part in the weekly Physics Colloquium. German 1b is strongly recommended as an extra course.

Students will write the regular examinations in each course taken. In addition, there will be, at the end of the final year, written comprehensive examinations.

Motion carried.

9. Department of Political Economy - New Course

Dr. Hanson moved, seconded by Dr. Collins, that a new course, Economics 60, be approved as follows:-

Economics 60 - Intermediate Economic Analysis

An intensive study of the theory of value, the theory of distribution, and the analysis of national income, with applications to public policy. Prerequisites:- 1, 7, or 51.

Motion carried.

10. Department of Zoology - Change in Designation

Dr. Moore moved, seconded by Dr. Miller, that the words "Elementary Zoology" be substituted for "Animal Biology" in the description of the junior course Zoology 1. Carried.

11. Committee on Patterns:- Progress Report (Professor D.E. Smith)

Dr. Smith submitted to Council the following report:-

"The Committee has held its first meeting to consider its duties both generally and with respect to specific problems before it.

Requests for calendar changes in the patterns were reviewed, with these results:-

(a) No action was taken on patterns which have already been approved by Council this year;

December 7, 1953.

(b) The Committee recommends that Greek 1 be deleted from the proposed Philosophy pattern, pending a review in a later meeting of the foreign language requirements of all B.A. patterns;

(c) Otherwise the Committee recommends approval of all pattern changes requested.

Certain other problems were considered:-

- (1) The registration of pre-medical students in B.A. and B.Sc. patterns;
- (2) The possibility of introducing general patterns.

There was considerable discussion of the issues involved in some of the detailed proposals. It became clear that the Committee must examine the principles involved in setting up the Pattern System, and the development of these principles in specific patterns as they now appear in the calendar. Except for calendar changes indicated above, the Committee agreed to postpone recommendations on the various problems considered until further meetings had clarified the issues.

Respectfully submitted,

R.K. Brown,
E.J.H. Greene,
J.T. Jones,
R.B. Miller,
W.C. Wonders,
D.E. Smith (Chairman)."

It was agreed to accept the report without discussion, since the recommendations had already been dealt with under other items in the agenda.

12. Announcements re Defence Research Board, National Research Council, and Humanities Research Council

The Chairman announced that application forms for grants or fellowships from the above institutions were available at the Dean's office for anyone who wished information on them.

13. Other Business

Dr. Crosby stated that, since the recommendations made in his report on Matriculation had been rejected by General Faculty Council, he wished to pursue the matter further. The Chairman explained that the matter was no longer in the hands of the Council of the Faculty of Arts and Science, but he would be prepared to assist Dr. Crosby in making further representation to General Faculty Council.

The meeting adjourned at 6:00 p.m.

Walter H. Johns.

Walter H. Johns,
Dean.

February 1, 1954.

Minutes of the 448th meeting of the Council of the Faculty of Arts and Science, held on February 1, 1954 at 4:30 p.m. in the Senate Chamber.

Present were:- Dean Johns in the Chair; Professors Blackley, J.W. Campbell, Card, Collier, Collins, Cormack, Davis, Duggan, Glyde, Gowan, Grayson-Smith, Greene, Hanson, Harris, Jones, Keeping, May, Miller, Moore, Morrison, Newbound, Nichols, Phibbs, Salter, Scott, D.E. Smith, Spearman, Stelck, Strickland, Whyte, Wonders, Wyman, and Mr. Taylor.

1. Minutes of the previous meeting

It was moved by Dr. Wyman, seconded by Dr. Cormack, that the minutes of the previous meeting be approved as circulated. The motion was carried.

2. Department of Political Economy

It was moved by Dr. Wonders, seconded by Dr. Hanson, that the following note be appended to the course description for Geography 50 in the calendar:- "Students intending to take Geography 50 are strongly urged to precede it by Geography 1". Motion carried.

3. Department of Philosophy and Psychology

It was moved by Professor Card, seconded by Dr. Smith, that a revision of the description of Sociology 51 be approved as follows:-

"Sociology 51:- An introduction to the history and methods of sociology; the social group; culture; socialization; human ecology; institutions; social interaction; social change; social control; social problems."

Carried.

4. Department of Physics

Dr. Grayson-Smith moved, seconded by Dr. Newbound, that the examination in Physics 104 be waived, since only one graduate student is taking the course, under the supervision of Dr. Newbound, and his competence could easily be assessed on the basis of his work. Motion carried.

5. Department of History

It was moved by Dr. Collins, seconded by Dr. Blackley, that a new course, History 106e, be approved as follows:-

"History 106e - Revolutionary and Napoleonic France - 3 hrs.
given by Dr. Blackley.

Motion carried.

6. Special cases

Dr. Davis and Dr. Newbound of the Revisions Committee presented to Council two special cases. The first one was that of Miss Evelyn Lees, which had to be dealt with at this time, since her registration for the 1954 summer session would depend on the decision of the Council of the Faculty of Arts and Science as to whether she could be recommended for her degree on the basis of the work already completed. During the years from 1929 to 1938, Miss Lees had completed five years in the Faculty of Medicine and, within her program there, had obtained credits in the fields of Bacteriology, Biochemistry, and Physiology. She had since transferred to the Faculty of Arts and Science and had secured additional credits in the fields of English, Mathematics, and Physics. Her record shows more than the required number of seconds, if some of the medical courses are considered. Dr. Davis presented her record, summed it up and moved, seconded by Dr. Newbound, that Miss Lees be recommended for the degree of B.Sc. in Arts on the basis of her credits in the Faculty of Medicine and the Faculty of Arts and Science. The Chairman added that, under the old regulations, Miss Lees had been asked to present sequences rather than a pattern, and that she was now only one C division course short of the original prescription. The motion was carried.

Dr. Newbound then presented the case of Mr. Donald M. Borchert, who had completed his first year in the B.Sc. program, Chemistry pattern, in 1952-53 and is at present registered in the first year of the combined course leading to the degrees of B.A., LL.B. Mr. Borchert now wishes to transfer to

February 1, 1954.

the History pattern, and is asking permission to take four senior History courses and two options in his third year, since this program would enable him to complete the pattern requirements and make him eligible for the B.A. degree. The Chairman stated that Mr. Borchert seemed to be a very good student, who had chosen this program in order to broaden his education before entering the Faculty of Medicine. It was moved by Dr. Newbound, seconded by Dr. Collins, that Mr. Borchert's request be granted. The motion was carried.

7. Announcement re W.U.S. tour

The Chairman announced an invitation from the World University Service for applications for positions as leaders of study tours in Europe sponsored by the W.U.S.

The Chairman also announced that a letter had been received from the Chairman of Displays at the Guest Weekend requesting co-operation from the staff in the organization of displays.

In conclusion, the Dean announced that he would be absent from his office from February 3rd to 26th, making a tour of U.S. universities in the Pacific Northwest, and that during his absence Dr. Newbound would be available for assistance and advice regarding students' programs etc. and that Mr. Samuel would look after administrative matters.

The meeting adjourned at 5:00 p.m.

Walter H. Johns.

Dean.

April 5, 1954.

Minutes of the 449th meeting of the Council of the Faculty of Arts and Science, held on April 5, 1954 at 4:30 p.m. in the Senate Chamber.

Present were:- Dean Johns in the Chair; Professors Blackley, Brown, J.W. Campbell, Card, Collier, Collins, Cook, Cormack, Crosby, Davis, Duggan, Glyde, Grayson-Smith, Greene, Harris, Jones, Keeping, McIntyre, May, Miller, Moore, Morrison, Newbound, Nichols, Patrick, Phibbs, Rees, Ryan, Salter, Scargill, Scott, D.E. Smith, Spearman, Stelck, Stuart, Tuba, Walker, Wonders, Whyte, and the Registrar.

1. Assistant to the Dean

The Chairman announced that the Board of Governors had appointed Dr. Newbound Assistant to the Dean and that Dr. Newbound would give assistance in the Dean's Office particularly with advice to students regarding their programs.

2. Minutes of the meeting of February 1, 1954.

It was moved by Professor Keeping, seconded by Dr. Blackley, that the minutes of the meeting of February 1, 1954 be approved as circulated. The motion was carried.

3. Special case - Mr. Kenneth Hicken

The Chairman submitted to Council a request by Kenneth Hicken, a second year student in Honors Physics, to interrupt his program for two years in order to go on a Latter Day Saints mission. Dr. Grayson-Smith moved, seconded by Dr. Scott, that the request be granted. Motion carried.

4. Department of English - English 112

Professor Jones moved, seconded by Dr. Scargill, that the course described in the calendar as a special reading program in the third and fourth years of Honors English be called English 112 and appear in the list of courses thus:-

112 - Special program of reading for Honors students. Early in his third year the Honors English student, in consultation with the Department will elect a special program of reading to be followed under the guidance of a member of the Department for the ensuing years. This

April 5, 1954.

program of reading may be based upon the study of an author, a period, or a literary species. The student will do his work in this course without class instruction and will present the results in frequent reports and essays.

Carried.

5. Department of Fine Arts

The Chairman read to Council the first paragraph of a letter received from Professor Glyde as follows:-

"I would appreciate it if you would bring to the attention of the Faculty Council, that we would like to introduce a certificate after two years of study in our Diploma Course in Art. I think it would be wise to introduce an intermediate certificate, because it would give the necessary qualifications and credits to enable students to carry on in more specialized fields such as Industrial Design and Commercial Art, or any other specialized applied art field. There are many art colleges with branches of this kind, and they would, of course, require a definite level of achievement in drawing and design, which this intermediate certificate would meet."

Professor Glyde explained that it was customary to have a certificate after two years, which would have more significance than a mere transcript. He then moved, seconded by Dr. Cormack, that the Council of the Faculty of Arts and Science approve in principle the provision of a certificate of standing at the end of the second year of the four-year program leading to the Diploma in Art, and that this proposal be referred to General Faculty Council for specific action. Carried.

6. Committee on Special B.Sc. Course

The Chairman explained to Council that it seemed evident that a review of the content of the Special B.Sc. pattern for those wishing to fit themselves for positions in Public Health and Clinical Laboratories should be undertaken. Normally this would be the responsibility of the Patterns Committee acting under the chairmanship of Professor D.E. Smith, but in this case it seemed advisable to secure the advice of the

Professors most familiar with the program and with the work of graduates from this program. He, therefore, felt that the Heads of the Departments of Bacteriology, Biochemistry, and Pathology might be asked to make a preliminary study and report to the Council of the Faculty of Arts and Science directly. Professor D.E. Smith fully concurred in this procedure. Dr. Collier added that preliminary talks of an unofficial character had already been held between himself, Dr. R.D. Stuart, and Dr. J.W. Macgregor, and they had agreed to share responsibility for advising students in the Special B.Sc. program. It was moved by Dr. Tuba, seconded by Dr. Harris, that a committee comprising Professors Collier, Stuart, and Macgregor be set up to survey the program of the Special B.Sc. course in the light of the various possibilities of employment, including employment in industry, for such students, and that this committee report to the Council of the Faculty of Arts and Science at a subsequent meeting. Motion carried.

7. Library Committee meeting

The Chairman informed Council of a letter he had received from the Assistant to the President inviting him to attend a meeting of the Library Committee on April 19, 1954. The Dean asked members of Council to refer to him, prior to that date, any suggestions they might have regarding the operation of the Library.

8. Department of Mathematics - new course

Professor Keeping submitted for approval the following course which the Department of Mathematics wished to introduce:-

"Mathematics 110 - Number Theory
Dr. Leo Moser

3 hrs.

Congruences and diophantine equations, quadratic reciprocity law, arithmetic functions, continued fractions, partitions, distributions of primes.

Texts: Introduction to Number Theory. T. Nagell,
The Theory of Numbers. Hardy & Wright. "

April 5, 1954.

Professor Keeping moved, seconded by Dr. Campbell, that this course be approved and sent forward to the Committee on Time-tables and New Courses.

Carried.

The meeting adjourned at 5:00 p.m.

Walter H. Johns.

Dean.

May 8, 1954.

Minutes of the 450th meeting of the Council of the Faculty of Arts and Science, held on May 8, 1954, at 9:00 a.m. in the Senate Chamber.

Present were:- Dean Johns in the chair; Professors Blackley, Brown, J.D. Campbell, J.W. Campbell, Card, Collier, Collins, Cormack, Crosby, Davis, Duggan, Folinsbee, Gowan, Grayson, Smith, Greene, Hanson, Harris, Jones, Keeping, McIntyre, May, Miller, Moore, Morrison, Mueller, Newbound, Nichols, Patrick, Rowan, Ryan, Salter, Scott, D.E. Smith, Stelck, Strickland, Thomas, Tuba, Walker, Warren, Whyte, Wonders, Wyman, and the Registrar.

1. Minutes of the previous meeting

It was moved by Dr. Wyman, seconded by Professor Keeping, that the minutes of the meeting of April 5, 1954 be approved as circulated. The motion was carried.

2. Revisions Committee - appointment of new members

The chairman informed Council of the termination of membership in the Revisions Committee of Dr. May and Dr. Newbound in April of this year. It was agreed to replace Dr. May by Dr. Blackley of the History Department and Dr. Newbound by Dr. Harris of the Department of Chemistry. Dr. Blackley and Dr. Harris had already previously indicated their willingness to accept such an appointment. The Chairman added that the appointment of Dr. Davis as chairman of the Revisions Committee was running out in October, 1954.

3. School of Household Economics - calendar changes

Miss Patrick presented to Council the following calendar changes, which had already been approved by General Faculty Council, subject to approval by the Council of the Faculty of Arts and Science:-

"That Chemistry 43 replace Chemistry 45 in first year, and that Economics 2 be moved from first year to second year to displace Chemistry 58.

That senior students particularly interested in Clothing and Design might be allowed to choose Household Economics 46 instead of Household Economics 54, 58, and 64.

May 8, 1954.

That Home Nursing be deleted from Household Economic 2, and that the time be devoted to Clothing and Textiles."

Miss Patrick moved, seconded by Miss McIntyre, that these changes be approved. Motion carried.

4. Report of the Committee on Honors re Graduands:

Recommended for the Governor General's Gold Medal:-

Stewart, Maurice Bruce

Recommended for First Class Honors:-

Buyniak, Victor	Modern Languages
Hare, Carl Rupert Desmond	English
Hetherington, Tiffin Donald	Chemistry
Kutney, James Peter	Chemistry
McGreer, Donald Edward	Chemistry
McLeod, Donald Johnstone	Chemistry
Mellon, George Barry	Geology
Stevenson, Margaret Douglas	Chemistry
Stewart, Maurice Bruce	Physics
Thyne, Dieter Earnest	Chemistry
Trollope, John Reginald	Mathematics

Recommended for Honors:-

Danyluk, Theodore Harry	Mathematics
Doz, Hinda Eileen	Chemistry
Hart, Laurence Gilbert	Physics
Raines, Margaret Virginia	Chemistry
Ritchie, William Douglas	Geology
Schneider, Harvey Roy	Physics

It was moved by Dr. Warren, seconded by Dr. Grayson-Smith, that these graduands in Honors be recommended to General Faculty Council for their degrees. Carried.

5. Report of the Revisions Committee

Recommended for the degree of Bachelor of Arts:-

Baker, James Arnold	Buyniak, Victor, 1st class Honors
Balke, Mary Genevieve Hope - 1st class standing	in Modern Languages
Barnecut, Elizabeth Alethea	Chennels, Beatrice Ruth
Beckingham, John Alan	Cuff, Peter Lloyd
Betts, Glen Jared	De Candole, Janet Mary
Brese, William Gerald	Evans, Brian Llewellyn
	Fargey, Marion Irene

Farrell, John Michael
 Fisher, Agnes Joan
 Fisher, Barry Vernon
 Fitch, Sanford Theron
 Friedman, David Lane
 Graburn, Linda Margery
 Greene, Gordon Kay
 Greulich, Greta Amelia
 Guterson, Charlotta Maria
 Hare, Carl Rupert Desmond -
 1st class Honors in English
 Harington, Charles Richard
 Hochachka, Frederick
 Kasper Grace Helen
 Kelly, Donald John
 Kent, John Spencer - 1st
 class standing
 Knoll, Frances Aileen
 Kranz, Kathleen Jane
 Latta, Keith Elgie
 Lawford, Hugh John
 Liden, Ardis Yvonne
 McDonald, Daniel Maurice

MacKenzie, John Horace
 McNiven, Beverley Ratcliffe
 McNiven, John Graham
 Manning, Madeleine Sarah
 Meeres, Ralph Horace
 Millard, James Arthur
 Morgan, Mary Elizabeth -
 1st class standing
 Mueller, Elizabeth Charlotte
 Neve, Robert Rex
 Nichols, Eleanor Audrey
 Nicholson, George Peter
 Nielsen, Ralph
 Noble, Donald
 Philion, Roy Albert
 Pulleyblank, Winifred Grace Elizabeth
 1st class general standing
 Sanderson, Ethel May
 Sayers, William Andrew
 Schalm, Bernard
 Shamchuk, Alex
 Shelton, Larry Arnold
 Sheremata, Anthony
 Shubert, Sylvia Joanna
 Staniland, Arthur Paul
 Steele, Donald Vernon
 Stuart, Robin Malcolm
 Tatroe, Jean Iris
 Taylor, Yvonne Edith
 Vaast, Jeannette Josephine
 Whiting, Robert Neal
 Wolfman, Edward Leonard
 Wright, Albion Richard

Dr. Davis added that Miss Pulleyblank had been an Honors student and had decided to apply for her degree on the completion of her third year and that she had been included in the above list although she lacked two C options. The chairman explained that Miss Pulleyblank planned to go on to St. Stephen's College for graduate work in Theology. Dr. Davis moved, seconded by Dr. Newbound that the above students be reported to General Faculty Council as being clear for their degrees. Carried.

Recommended for the degree of Bachelor of Science:-

Allen, Peter Baker Roderick
 Amerongen, Leo Joseph
 Anderson, E. Jean
 Barnett, Shirley Ann
 Berg, Solomon
 Black, William Robert

Borden, Robert Leslie
 Bresnahan, Boyd Keith
 Brody, Gary Sidney
 Brody, Harry
 Bryant, Charles Clifford
 Cadogan, George Ivor

May 8, 1954.

Carmichael, James Munro
Carpenter, William Bradford
Cherry, Donald Joseph
Chinneck, John Montgomery
Chow, Jessie Yui Yan
Clemenger, Allan Keith
Clemis, Jack David
Coulson, Gordon McLeod
Cuff, David John
Cumming, Lloyd William
Danyluk, Theodore Harry -
Honors in Chemistry
Donaldson, Harry Vernon
Doz, Hinda Eileen - Honors
in Chemistry
Duncan, James Roger
Edwardh, Calvin John
Fennell, Elizabeth Irene
Garden, Arthur Alexander
Gaudin, Donald Ashley
Hart, Laurence Gilbert -
Honors in Physics
Hauptman, Albert, Walter
Hetherington, Tiffin Donald -
1st class Honors in Chemistry
Hirst, Georgean
Hnatiuk, John Nicholas
Holgate, Gordon Philip
Hollaway, Donald Earl
Hunter, John Murray
Hutton, Gordon James
Inglis, Fay Walker
Jampolsky, Noel Aaron
Johnson, Alyn William -
1st class standing
Julson, Kenneth Ivan
Kasper, Thaddeus Alphonsus
Kostash, Theodore Lawrence
Kotkas, Lawrence John
Kutney, James Peter - 1st
class Honors in Chemistry
Kuznecov, Walter
Lees, Evelyn
Lenz, Alfred Carl -
1st class standing
Lingas, John
Low, John Sylvester
Lundgren, Frederick Marshall
Lyle, Keith Warren
McAndrew, John Martin
McGreer, Donald Edward - 1st
class Honors in Chemistry
McLean, Robert Alan
McLeod, Donald Johnstone - 1st
class Honors in Chemistry

McLeod, Malcolm Ewen
McNaught, Margaret Anne
Mellon, George Barry - 1st class
Honors in Geology
Milne, John Douglas
Milobar, Tony
Moore, Wayne Ewing
Morris, Rudyard Roderick
Morrison, Robert Thomas
Nett, Alvina Elizabeth -
1st class standing
Newman, John Joseph
Nichka, Bohdan Ambrose
Nikiforuk, Zan
Nix, Harold Robert
Osoba, David
Paranchych, William
Parney, Fred Lyman
Patriquin, Evelyn Kaye
Peacock, George William
Pistawka, Harry Joseph
Raines, Margaret Virginia -
Honors in Chemistry
Rayment, Kenneth Bryan
Reid, David William James
Ritchie, William Douglas -
Honors in Geology
Robinson, Jane Anne
Runte, Douglas
Russell, Robert William
Schneider, Harvey Roy -
Honors in Physics
Semchishen, Crest Max
Sorokan, Stephen George
Sommerville, Robert Joseph
Stefanyk, Harry N.
Stevenson, Margaret Douglas -
1st class Honors in Chemistry
Stewart, Gordon Alexander
Stewart, Maurice Bruce - 1st
class Honors in Physics
Surkan, Alvin John
Sweetnam, Victor Samuel
Tai, Charles Jow
Taskey, William Melvin
Tedeschini, Mario Isidore
Thachuk, Zonia Rose
Thyne, Dieter Earnest - 1st
class Honors in Chemistry
Trollope, John Reginald - 1st
class Honors in Mathematics
Walker, Theodore Elliott
Watt, Jean Marion
Weisz, Samuel
Wensel, Ronald Harvey
Winkelaar, William John

Dr. Davis Pointed out that Robert Leslie Borden had been included in the above list although he was short a senior A or B course, but since he had an extra junior A or B course, the Revisions Committee had substituted this for the deficiency. Dr. Davis also gave brief explanations on the cases of Miss Evelyne Lees (whose case had been dealt with in the meeting of February 1, 1954), John Montgomery Chinneck, John Douglas Milne, and William John Winkelaar. He then moved, seconded by Dr. May, that the above students be reported to General Faculty Council as being clear for their degrees.

The Chairman raised the question whether a student should be recommended for his degree if he had completed the requirements, but had failed a course in his final year. It was the general view that a student should be granted his degree if he had completed all the requirements. The motion was then put and carried.

Special Cases

B.A.

D'Arcy, William Gerald	Political Economy 105 incomplete; will apply for Honors degree at Fall Convocation.
McLaughlin, Kathleen Derwyn	Ill for all examinations, eligible for deferred finals.

B.Sc.

Ferbey, John William	Wrote two examinations, absent for three.
Fitzgerald, Edward Leo	Ill for all final examinations; needs only Chemistry 54.
Hanson, Lorne Ronald	Wrote two final examinations, absent for three; lacks two seconds.
Stafford, George Howard	Wrote two examinations, then was operated on for acute appendicitis; three examinations deferred.

Failed to meet requirements for the B.A. degree:-

Ailley, Shemma Katherine	lacks two seconds
Cameron, John	lacks English 51

May 8, 1954.

Coughlan, Paul Bernard	one failure, lacks one second
Diakur, Peter	one failure, lacks three seconds
Dobbin, Thomas Hugh	lacks two seconds
Estrin, Sol	lacks one second
Gazdarica, Louis John	one failure in Law
Hamill, Robert	one failure
Huston, Harold Wesley	one failure
Kenney, Trevor Donald	lacks two seconds
Noble, Harry Johnstone	two failures, lacks four seconds
Pecover, Jack Ferris	one failure, lacks two seconds
Pipella, Edward	lacks one second
Sarchuk, Greta Petrunella	lacks one second
Sr. Collins, Gabriel E.	one failure

Failed to meet requirements for the B.Sc. degree:-

Achtmichuk, Michael James	five failures in Medicine
Anderson, Joseph Newton	two failures, lacks three seconds
Chrusch, Barney George	lacks two seconds
Genser, Avron	one failure in Medicine
Hassard, Donald Thomas Robertson	two failures in Medicine
Krebes, Andrew Joseph	two failures, lacks one second
Lane, David Maxwell	lacks one second
Lys, Roslow Peter	lacks one second, registered 1st year B.Com.
McCaffrey, James Stephen	two failures, did not write two courses, lacks four seconds
MacDougall, David Bruce	two failures
MacKenzie, George Duncan	one failure, lacks four seconds and one course
Mandryk, Harry	lacks one second, has seventeen courses
Meyers, Nelson August	one failure, lacks one second
Mosychuk, Harry	one failure, lacks Mathematics 55 for Physics Pattern, has fifteen courses
Nicas, James Andrew	did not satisfy requirements for second year Medicine
Niziol, Stephen Joseph	lacks one second
Orvis, Ralph Allan	lacks two seconds
Patriquin, Evelyn Kay	lacks one half second (see motion below)
Pritchard, Raymond Edward	one failure in Medicine
Rae, Donald Allan	lacks one second
Ragosin, Alvin James Irving	lacks two courses
Ratsoy, Eugene William	lacks one course
Sawka, William	one failure
Sheppard, Lawrence Donald	one failure in Medicine
Spohn, Norbert Henry	lacks one course
Takahashi, Joseph Haruo	two failures in Medicine
Wiedemann, Frank Victor	lacks two seconds
Woywitka, Richard Peter	one failure, did not write two courses.

Dr. Smith moved, seconded by Dr. Collier, that Miss Evelyn Kay Patriquin

should be removed from the above list and should be recommended to General Faculty Council for her degree in spite of her failure to secure second class standing in the half course, Chemistry 52. Carried.

There was some discussion as to whether students must secure second class standing in both of two half courses in order that the marks may be accepted as second class standing or whether the two marks may be averaged. The Chairman agreed to try to find the regulations governing this question.

It was moved by Dr. Collier, seconded by Dr. Tuba, that, if the Faculty of Medicine agreed before the General Faculty Council meeting on May 11th that Mr. Nicas had completed the requirements of the second year of Medicine satisfactorily, he should be recommended for the degree of B.Sc. The motion was carried.

It was moved by Professor Keeping, seconded by Dr. Greene, that the report of the Revisions Committee on those who failed to meet the requirements for the B.A. and the B.Sc. as well as on the special cases be accepted, with the amendments as they occur with respect to Miss Patriquin and Mr. Nicas. Motion carried.

6. Lieutenant Governor's Gold Medals

It was then moved by Professor Keeping, seconded by Dr. Collins, that Miss Mary Elizabeth Morgan be recommended for the Lieutenant Governor's Gold Medal in the General B.A. program and that Mr. Alyn William Johnson be recommended for the Lieutenant Governor's Gold Medal in the General B.Sc. program. Carried.

7. Report of the School of Household Economics

Recommended for the degree of B.Sc. in Household Economics:-

Brown, Betty Jane	Press, Eileen Elizabeth
Duncan, Jean Bertha	Racette, Jeanne Marie
Gehman, Gladys Elaine	Rebus, Lorraine Ruby
Jack, Eva Mary	Taradash, Toby Bella
McGillivray, Rita Mae	Warawa, Susan Florence
Matthews, Amy Jean	Wensley, Caroline Willys
Maw, Mary Elinor	White, Barbara Jayne
Parney, Anne Elizabeth	

It was moved by Miss Patrick, seconded by Miss Duggan, that the above students be recommended to General Faculty Council for their degrees. Carried.

Failed to meet requirements for the degree of B.Sc. in H.Ec.:-

Eck, Elizabeth Ann	lacks one second
Olsen, Dorothy Rose-Marie	lacks two seconds

May 8, 1954.

Miss Patrick moved, seconded by Miss Duggan, that Council approve the action taken in the above two cases. Carried.

8. Report of the School of Commerce

Recommended for the degree of Bachelor of Commerce:-

Christiansen, Elmer Richard	Lindsay, Robert Bethune Nettleton
Clark, William Harris Geoffrey	McKinnon, Francis Arthur Richard
Cooke, Alan Thomas	McNichol, Peter
Cross, Donald James Alexander	Moyse, Enid Gertrude
Falk, Margaret Page	Murray, Alec Thirlwell
Ferris, William Dale	Ratcliffe, Valerie Agnes
Fitzpatrick, Francis William	Ross, Graham David
Fraser, Donald James	Ross, Walter Ronald
Helm, Harry	Stephen, William Grant -
Henderson, James Reginald	1st class general standing
Hogan, Alexander	Thompson, Albert Sperling
Kapteyn, James Heinz	Tye, William Howard
Kennedy, Robert John Huntly	Van Helden, David Reinier
King, Arthur Cyril	Werthenbach, Eleanore Marie
Kirkpatrick, Gerald James	Winspear, William Watchorn -
Koyanagi, Chikara	1st class general standing
Le Bourveau, Homer Graham -	
Honors in Business Administration	

Failed to meet requirements for the B.Com. degree:-

Debnam, Kenneth Walker	did not write History 58
Field, Derek Harold	lacks two seconds
Gerlitz, John Reginald	lacks two seconds
Nystrom, Muriel Elizabeth	lacks two seconds
Smith, Gordon Wayne	did not write Political Economy 67

It was moved by Professor J.D. Campbell, seconded by Dr. Hanson, that the report of the School of Commerce be approved. Motion carried.

9. Other Business

The Chairman called for a motion authorizing the Summer Session Revisions Committee to deal with summer session results and thus obviate Arts Faculty Council meetings between now and September. It was moved by Dr. Whyte, seconded by Dr. Moore, that the Dean be empowered to appoint a special Revisions Committee from the Council of the Faculty of Arts and Science to deal with summer session results, and that the regular Revisions Committee be empowered to deal with the results of undergraduates in this Faculty which were not yet complete, so that it would not be necessary to call another meeting of Council. Carried.

It was moved by Dr. Davis, seconded by Dr. Newbound, that - at the discretion of the Dean - a second year student lacking second class standings be recommended and allowed to write a maximum of two supplemental examinations in second year courses to raise his standing in order to ease the pressure in his final year. Carried.

Professor Keeping expressed the appreciation and gratitude of members of Council for Professor J.W. Campbell, who was in attendance today for the last time before his retirement. Members of Council warmly applauded his thanks to Professor Campbell.

The Chairman also, on behalf of Council, expressed appreciation of the contributions made by Professor Strickland to the deliberations of the Council of the Faculty of Arts and Science. Professor Strickland was also given applause as an expression of the regard in which he was held by members of Council.

The meeting adjourned at 10:30 a.m.

Walter H. Johns

Dean

October 14, 1954.

Minutes of the 451st meeting of the Council of the Faculty of Arts and Science, held on October 4, 1954, at 4:30 p.m. in Room 135, Arts Building.

Present were:- Dean Johns in the chair; Professors Blackley, Collier, Collins, Crosby, Davis, Duggan, Glyde, Gowan, Grayson-Smith, Greene, Hanson, Harris, Hocking, Keeping, Kreisel, May, Miller, Moore, Morrison, Moss, Newbound, Orchard, Patrick, Phibbs, Ryan, Salter, Scargill, Scott, Spearman, Stelck, Stuart, Thomas, Tuba, Walker, Whyte, Wonders, and the Registrar.

1. Minutes of the previous meeting

The minutes of the previous meeting were read by the Chairman, and it was moved by Dr. Blackley, seconded by Dr. Gowan, that they be approved. Motion carried.

2. Report of the Summer Session Revisions Committee

Dr. S.G. Davis, as Chairman of the Summer Session Revisions Committee, presented the following report:-

Recommended for the degree of Bachelor of Arts:-

Conaty, Mary Genevieve	Helman, Claire Louise
Cox, Philip James	Leggat, Berna
Donnelly (nee Voisin), Phyllis Doris	McCaffery, Michael Thomas
Driscoll (nee Buie), Ena Mary H.	Sauder, Ronald Noah
Garrow (nee Medhurst), Beatrice Eileen	Savage, William Millichamp
Grywalski, Stanley	

Recommended for the degree of Bachelor of Science:-

Ratsoy, Eugene William
Woloshyn, John

Recommended for the degree of Bachelor of Commerce:-

Whyte, Charles Andrew

Dr. Davis moved, seconded by Dr. May, that the above students be recommended to General Faculty Council for their degrees. Motion carried.

3. Report of Revisions Committee on cases arising out of supplemental and deferred examinations

Dr. Davis, as Chairman of the regular Revisions Committee, presented the following report:-

Recommended for the degree of Bachelor of Arts:-

D'Arcy, William Gerald
 (with Honors in Economics)
 Dobbin, Thomas Hugh
 Estrin, Sol

Gould, Sarah Ann
 Huston, Harold Wesley
 Kenney, Trevor Donald
 Pipella, Edward
 Scarlett, Elizabeth Anne

Recommended for the degree of Bachelor of Science:-

Betton, Frederick
 Hanson, Lorne Ronald
 Mandryk, Harry

Orvis, Ralph Allen
 Rae, Donald Allan
 Sawka, William

Recommended for the degree of Bachelor of Commerce:-

Field, Derek Harold
 Gerlitz, John Reginald

Recommended for the degree of B.Sc. in Household Economics:-

Kelly (nee Eck), Elizabeth Ann
 Olsen, Dorothy Rose-Marie

Dr. Davis moved, seconded by Dr. May, that the above students be recommended for their degrees. Miss Patrick moved, seconded by Miss Duggan, an amendment removing Miss Olsen's name from the above list, since this student had not secured the required number of second class standings. The amendment was carried. The motion as amended was then put and carried.

Dr. Davis then presented the details of Miss Olsen's record, pointing out that, although she lacked one second class standing in one course of normal weight, she had second class standing in two fractional courses. It was moved by Dr. Scargill, seconded by Professor Ryan, that her standing in these two fractional courses be regarded as satisfying the requirements. Professor Salter and Dr. Newbound warned that such a decision might set a precedent; there would be similar cases in the future, and it would be preferable to treat each one on its merits. As an amendment to the motion, Miss Patrick moved, seconded by Professor Thomas, that Miss Olsen be recommended to General Faculty Council for her degree on the basis of the record in her senior year, in spite of the fact that she does not present seconds in four courses of normal weight. This motion was carried, thus excluding the original motion.

October 4, 1954.

Dr. Davis then presented the case of Miss Greta P. Sarchuk, who had come to this University with advance credit in four courses from the University of Manitoba. She has now completed fifteen courses towards the degree of B.A. in the Music Pattern. She presents seven second class standings; only two of these were achieved in senior courses, but four were in her second and third years. Dr. Grayson-Smith moved, seconded by Dr. Blackley, that Miss Sarchuk be recommended for her degree. The motion was carried.

4. Motion regarding cases arising out of special supplemental examinations

The Chairman stated that a few cases might arise where students will become eligible for graduation on the basis of supplemental examinations written in October. Dr. Collier moved, seconded by Dr. Moore, that the Revisions Committee be empowered to refer such cases directly to General Faculty Council. Motion carried. *

5. Petition from Mr. John M. Schuurmans re matriculation language

The chairman read out to Council Mr. Schuurmans' petition explaining his failure to clear his matriculation deficiency of a foreign language during his first year at University and asking to be admitted to the second year on the condition that he clear this deficiency before September 20, 1955. In his letter Mr. Schuurmans stated that he had considered transferring to Dalhousie University, where he believed his native language - Dutch - might meet the foreign language requirement, or to the University of British Columbia, where "a similar ruling" might be possible. However, he had learned that, since he intended to practise as a lawyer in Alberta, it was desirable for him to get his degree at the University of Alberta. Professor Salter felt that the ruling at Dalhousie was a wise one and that the University of Alberta should consider a similar one. The chairman explained that the native language of students had been accepted in previous cases, but that Mr. Schuurmans had got his senior matriculation in a Calgary high school except for French 3, which he had failed. He had been asked repeatedly during his first year at the University to clear his deficiency, but had shown a rather defiant

attitude. After some discussion, it was moved by Dr. Hanson, seconded by Professor Salter, that Mr. Schuurmans be admitted to the second year in the program in which he is now tentatively registered - a program which includes German A. Motion carried.

6. Petition from Miss Leona Lazarowich re C division option

The Chairman read out to Council Miss Lazarowich's petition stating that she had been allowed to transfer from the School of Household Economics to the Music Pattern in the Faculty of Arts and Science and asking that she be given credit in Household Economics 2 as a laboratory science. It was moved by Dr. Davis, seconded by Miss Patrick, that Miss Lazarowich be given credit for Household Economics 2 to be used in the open option. Dr. Grayson-Smith then moved, seconded by Miss Duggan, an amendment that Miss Lazarowich's credit in Household Economics 2 be accepted as the C division option. The motion as amended was then put and carried.

7. Petition from Mr. J. Ralph Marshall re substitution of English 63 for science course in third year of B.A. program

The Chairman read out Mr. Marshall's petition asking that he be permitted to substitute English 63 for the science course prescribed in the third year of the B.A. program, since he was going into Theology where he felt a sound literary background was necessary. There was some discussion as to whether granting of this request would set a precedent, but the Chairman explained that Council was dealing with an individual case and that by granting the request an exception would be made to a rule. Dr. Hanson moved, seconded by Dr. Kreisel, that Mr. Marshall's request be granted. The motion was carried.

8. Progress Report from Committee re Special B.Sc. Course (Dr. H.B. Collier)

Dr. Collier read out to Council the recommendations made by the above Committee as follows:-

- "1. This course should be continued, as it provides graduates who can take senior and supervisory positions in Clinical and Public Health

Laboratories. This function is not filled by the various short courses which prepare technicians on a purely practical level.

Preparation for employment in industry was not considered by the Committee at this time.

2. As this course is not the responsibility of any one Department in the Faculty, it should be under the direction and guidance of a Supervisory Committee, made up of representatives of the Departments most concerned with the problems of these students and their further training and employment following graduation. This Supervisory Committee should be under a rotating chairmanship.
3. Since the Department of Pathology will be concerned with the problems of this course, if our recommendations are put into effect, there should be a representative of that Department on this Faculty Council and on the Supervisory Committee.
4. If this course is to prepare students specifically for positions in Clinical and Public Health Laboratories, the pattern should be altered to include courses of a more practical nature in the final year, so that the graduates would not be less adequately prepared than short-course graduates in some of the Medical Sciences.
5. Since the inclusion of courses in the Medical Sciences would involve staff and Departments of the Faculty of Medicine, any further planning for alterations in this Special Course should be done in consultation with the Faculty of Medicine, and possibly in consultation with the pathologists of the various Edmonton hospitals.

Respectfully submitted,
J.W. Macgregor,
R.D. Stuart,
H.B. Collier, Convenor."

It was moved by Dr. Collier, seconded by Dr. Stuart, that the recommendations of the Committee be approved. Motion carried.

Dr. Collier then moved, seconded by Dr. Stuart, that the Council of the Faculty of Arts and Science forward a recommendation to the Faculty of Medicine that a joint committee be set up by the two Faculties to work along the lines suggested in Dr. Collier's report. Motion carried.

9. Proposed B.A. Pattern in Drama

Professor Glyde moved, seconded by Professor Orchard, that the following

B.A. pattern in Drama be approved by Council:-

October 4, 1954.

members of the Revisions Committee, Professors Gainer, Blackley, and Harris, had only recently been appointed, he felt that Dr. Davis should be asked to continue on the Committee for one more year and invited a motion to that effect. Dr. Moore moved, seconded by Dr. Blackley, that Dr. Davis be asked to serve as Chairman of the Revisions Committee for another year. Dr. Davis had already indicated his willingness to do so. The motion was carried.

13. Dr. Crosby raised a question concerning the effects of the removal of formal study of trigonometry in the grade XII program. Apparently students from some schools have had extra training in trigonometry. Dr. Crosby asked whether some University committee were in touch with the Department of Education to press for the re-insertion of trigonometry into the formal Grade XII program. The Chairman answered that such matters were the responsibility of the Joint Committee to Co-ordinate University and High School Curricula, and that suggestions from the Department of Mathematics could be directed to that body.

14. The Registrar expressed his thanks to those members of the Council who had helped with registration.

The meeting adjourned at 6:00 p.m.

Walter H. Johns.
Dean

* Recommended for the degree of B.Sc.:-

LANE, David Maxwell
STAFFORD, George Howard

November 1, 1954.

Minutes of the 452nd meeting of the Council of the Faculty of Arts and Science, held on November 1, 1954, at 4:30 p.m. in the Senate Chamber.

Present were:- Dean Johns in the chair; Professors Card, Collier, Collins, Crosby, Davis, Duggan, Glyde, Grayson-Smith, Greene, Hanson, Harris, Hocking, Jones, Keeping, Kreisel, Mayo, Miller, Moore, Morrison, Moss, Newbound, Orchard, Patrick, Phibbs, Ryan, Salter, Scargill, D.E. Smith, Stelck, J.B. Taylor, Thomas, Tuba, Walker, Whyte, Wonders and the Registrar.

1. Minutes of the meeting of October 4, 1954

It was moved by Professor Tuba, seconded by Professor Moore, that the minutes of the above meeting be approved as circulated. The motion was carried.

BUSINESS ARISING FROM THE MINUTES

2. Proposed B.A. Pattern in Drama

Dr. Smith, as Chairman of the Patterns Committee, reported that the Committee recommended adoption of the proposed B.A. Pattern in Drama as submitted by the Fine Arts Department, subject to the following change:-The words "A lab. science or mathematics course" in the first, second, and third years should be changed to read "A science or mathematics course". It was moved by Dr. Smith, seconded by Dr. Greene, that, with this amendment, the proposed B.A. Pattern in Drama be approved. The motion was carried.

3. Credit for half-year courses

It was moved by Dr. Miller, seconded by Dr. Moore, that, "when two half-courses (courses of full weight, lasting but one term) are offered together as credit for one course, first or second class standing shall be determined by the average of the two final marks. This average shall not be used to elevate a failure in one to a pass in both, or to depress a pass in one to a failure in both! Professor Salter asked whether half courses were desirable or necessary. Dr. Miller stated that half courses were used in the Zoology Depart-

November 1, 1954.

ment primarily for the convenience of students from other Faculties, e.g. Agriculture, and Dr. Walker felt that half courses were necessary in the Honors program in the Department of Chemistry in order to be able to vary the offerings from year to year. The motion was carried.

NEW BUSINESS

4. Notice of motion by Dr. R.B. Miller regarding matriculation for students entering the program leading to the B.Sc. in Arts

Dr. Miller gave notice of the following motion which he proposed to put at the next meeting of the Council of the Faculty of Arts and Science:-

Moved that matriculation requirements for the B.Sc. programs in the Faculty of Arts and Science consist of a high school diploma, a "B" or higher standing, and an overall average of at least 60% in:-

English 30
 Social Studies 30
 Mathematics 30
 French 30 or Latin 30 or German 30
 Science 30 (Chemistry)
 Science 31 (Physics).

(The single change is to eliminate Science 32, which now appears as one of the three science courses, from which students must offer two. The effect is to require all B.Sc. students to take high school Chemistry and Physics.)

Dr. Miller explained that the teaching of Biology in high school was unsatisfactory for the purposes of the University and that the Department of Zoology would prefer to see students take Physics and Chemistry and enter the University with a proper grounding in these subjects, which would prepare them for instruction in the biological sciences at university level. In the ensuing discussion it was pointed out by Dr. Whyte, Dr. Walker, and Dr. Mayo that, if the University ceased to require Biology for matriculation, the effect was likely to be a further worsening of the standard of Biology teaching in high school, where the subject would still be taken by those who did not go on to university or were proceeding to B.A. degree programs; and the possibility that high school Biology would attract good teachers, who could elevate the standard, would probably become remote. Professor Jones

stated that there were still some schools in Alberta that could not teach Chemistry effectively because of lack of laboratory equipment, but were able to teach Biology.

It was agreed that, before the motion came up at the next meeting of the Council of the Faculty of Arts and Science, the Chairman should obtain from the Department of Education information regarding the number of high schools, who were able to offer instruction only in Biology and one other science and could not provide instruction in both Physics and Chemistry. The Chairman also agreed to study the high school records of first year students in the B.Sc. programs in the Faculty to see how many presented credit in Biology as one of the science options. Miss Patrick stated that the School of Household Economics would be in favour of Dr. Miller's proposal. Dr. Crosby suggested the alternative of making the Biology course in Grade XI a matriculation course.

5. Department of Botany - Honors program

It was moved by Dr. Moss, seconded by Dr. Whyte, that the following changes be made in the prescription for Honors in Botany:-

Third Year Two advanced courses in Botany; A or B option; two Division C options.

Fourth Year Two advanced courses in Botany; Genetics 51; an option.

Dr. Moss explained that the only change in course requirements would be in the third year, where an A or B option becomes mandatory. This would be in line with the general regulations for Honors. Motion carried.

6. Departments of Botany and Zoology - Honors Program in Conservation Biology

Dr. Moss moved, seconded by Dr. Miller, that the program of the Honors course in Conservation Biology be retained as at present, for the following reasons:-

- (a) The course is now less specialized and is much broader in scope than other Honors courses.
- (b) Replacement of present courses by required A or B courses would not be in the best interests of the student's training in conservation biology.

7. Special Case - Miss Mildred Ivy Staples

The Chairman presented the case of Miss Staples, a second year Honors student, for whom a special program in French and Latin and Chemistry had been outlined for the present session, in order to enable her to sample all the fields of her special interests before deciding in which she wanted to continue. It was felt by the Honors Committee that Miss Staples' present registration was contrary to the regulations contained in the University Calendar and that they had no authority to approve it. They also felt that, on the conclusion of the present session, Miss Staples should be asked to continue her studies in accordance with one of the standard Honors programs. It was moved by Dr. Hanson, seconded by Dr. Hocking, that Miss Staples' present registration be approved by Council. Carried.

8. Proposed change in Economics Pattern

It was moved by Dr. Smith, seconded by Dr. Hanson, that Accounting 1 be made a permissible C option and that Economics 60 and Economics 66 be made compulsory in the Economics Pattern. The revised pattern would then appear as follows:-

First Year Economics 1
English 2
a junior course from Division B
an A or B option
a science or mathematics course or Accounting 1
Physical Education

Second Year Economics 60
an approved senior Economics course (preferably Economics 66)
two approved options, one of which may be a Political Science
course
a science or mathematics course or Accounting 1

Third Year two approved senior courses in Economics (one of these must be Economics 66 if it was not taken in the second year)
an approved option which may be a Political Science course
an option
a science or mathematics course or Accounting 1

The motion was carried.

9. Three-credit elective course in Trigonometry

The Chairman reported to Council the following motion, which Dean Hardy had placed before General Faculty Council on behalf of the Faculty of Engineering:-

.. that the three-credit elective course in Trigonometry now being offered in Grade XII at certain high schools and through the Correspondence Branch of the Department of Education be made a requirement with "B" standing or better for admission to the Faculty of Engineering.

General Faculty Council had amended the motion by adding a rider to the effect that "B" standing or better in the above course be required for admission to the Physical Science patterns and to the Honors programs in the Faculty of Arts and Science as well. The motion as amended had been adopted and the matter referred to the Articulation Committee.

10. Special Cases - R.E. Pritchard and L.D. Sheppard

The Chairman informed Council that the above students had become eligible for the degree of B.Sc. on the basis of supplemental examinations in the Faculty of Medicine, which had been written this Fall, but had not come to the attention of the Revisions Committee until after Convocation. Dr. Davis, as Chairman of the Revisions Committee, moved, seconded by Dr. Harris, that Mr. Pritchard and Mr. Sheppard be recommended to General Faculty Council for their degrees in time for the Spring Convocation, 1955. Motion carried.

The meeting adjourned at 5:30 p.m.

Walter D. Johns.
Dean

December 6, 1954.

Minutes of the 453rd meeting of the Council of the Faculty of Arts and Science, held on December 6, 1954, at 4:30 p.m. in the Senate Chamber.

Present were: Dean Johns in the chair; Professors Blackley, Card, Collier, Collins, Cormack, Crosby, Davis, Duggan, Glyde, Grayson-Smith, Greene, Hanson, Harris, Hocking, Jones, Keeping, Kreisel, May, Mayo, Miller, Moore, Morrison, Newbound, Patrick, Phibbs, Salter, Scott, Smith, Spearman, Stelck, Tayler, Thomas, Tuba, Walker, Whyte, Wonders, Wyman, and the Registrar.

1. Minutes of the meeting of November 1, 1954

It was moved by Dr. Walker, seconded by Dr. Tuba, that the minutes of the above meeting be approved as circulated. Motion carried.

BUSINESS ARISING FROM THE MINUTES

2. Matriculation requirements for B.Sc. students

In the meeting of November 1st, Dr. Miller had given notice of a motion regarding matriculation for students entering the program leading to the B.Sc. in Arts. In this connection the Chairman was able to supply the following information:-

According to Mr. W.E. Frame, Chief Superintendent of Schools, and Mr. H.C. Sweet, Assistant Chief Superintendent of Schools, the number of schools offering only two sciences in Grade XII, of which one is Science 32 (Biology), is so small as to be negligible. Most schools offer all three sciences, and of those offering only two sciences the great majority include Science 30 (Chemistry) and Science 31 (Physics) in their programs.

Dr. Newbound gave the following report on science courses presented by Freshman B.Sc. students in Alberta matriculation programs, September, 1954:

	<u>No. of Students</u>	<u>Percentage</u>
1. Chemistry and Physics only	101	74.3
2. Chemistry and Biology only	13	9.6
3. Physics and Biology	5	3.7
4. Chemistry, Physics, and Biology (seven course matric)	17	12.5
	<u>136</u>	<u> </u>

Dr. Miller then moved, seconded by Dr. Moore, that matriculation requirements for the B.Sc. programs in the Faculty of Arts and Science consist of a high school diploma, a "B" or higher standing, and an overall average of at least 60% in:

English 30
Social Studies 30
Mathematics 30
French 30 or Latin 30 or German 30
Science 30 (Chemistry)
Science 31 (Physics).

(The single change is to eliminate Science 32, which now appears as one of the three science courses, from which students must offer two. The effect is to require all B.Sc. students to take high school Chemistry and Physics.)

The Chairman explained that the effect of such a measure would not begin to apply before 1956. The motion, if passed, would come before General Faculty Council and might then be referred to the Joint Committee to Co-ordinate University and High School Curricula. The motion was carried.

Miss Patrick moved, seconded by Miss Duggan, that a rider be added to the above motion to the effect that the proposed matriculation requirements apply to candidates for the B.Sc. in Household Economics as well. Carried.

3. New courses

A. Department of Political Economy

Dr. Wonders moved, seconded by Dr. Hanson, that Council approve the following courses in Geography:

(1) Geography 51. Economic Geography 3 hrs.

The geographic distribution and significance of the world's resources and major industries, including the world trade patterns.

December 6, 1954.

(ii) Geography 52. Cartography

6 hrs. lect. and lab.

A graphic and geometric study of the major map projections and their application to cartographic purposes. The fundamentals of drafting; lettering and type; map lay-out and design; reproduction processes. Identification and interpretation of land and land use features from aerial photographs and selected topographic maps.

Before registering in this course, students must obtain the consent of the instructor.

Note:- This course included in the C Division.

(iii) Geography 70. Anglo-America

3 hrs.

The regional geography of Canada and the United States. The physical framework of these countries and its significance in their historical development; the concept of the geographic region, the pattern and characteristics of these regions, with selected detailed studies.

Prerequisite:- Geography 1 or Geography 50 or Geography 51.

(iv) Geography 71. Northern Lands

3 hrs.

Exploration, physical and human characteristics, possibilities of development and settlement of Arctic and sub-Arctic regions.

Special emphasis on Alaska, northern Canada, Greenland, and Scandinavia. A brief survey also will be made of Antarctica.

Prerequisite:- Geography 1 or Geography 50 or Geography 51.

The motion was carried.

Dr. Mayo moved, seconded by Dr. Hanson, that the following courses in

Political Science be approved:

(v) Political Science 54. Government of Canada

3 hrs.

H.B. Mayo

A study of the structure and functioning of the central government, especially of the Commons, the Senate, the Cabinet System, the Civil Service; and the role of political parties.

(vi) Political Science 58. Comparative Government

3 hrs.

G.R. Davy

A study of comparative political institutions, particularly of Britain, the United States, France and the Soviet Union.

(vii) Political Science 111. Advanced Political Thought

3 hrs.

H.B. Mayo

A detailed analysis of certain major political theories.

Prerequisite: Pol.Sc. 63, or the consent of the instructor.

(Not offered 1955-56.)

- (viii) Political Science 112. Reading and Seminar Course 3 hrs.

Required of all Honors students. Topics for reading will be arranged with the Department and discussed at class seminars.

- (ix) Political Science 134. International Politics 3 hrs.

May be arranged in consultation with the Department.

Dr. Mayo explained that the Department was proposing these courses in order to make possible an Honors program in Political Science, which would be dealt with later on in the meeting. The motion was carried.

B. Department of Geology

Dr. Stelck moved, seconded by Dr. Walker, that the following courses in Geology be approved:

- (i) Geology 106. Geochemistry 6 hrs.
J.D. Godfrey

A study of the earth in relation to the universe; the distribution and abundance of the elements in the earth; the laws governing their re-distribution, with special reference to igneous, metamorphic, sedimentary, and weathering processes.
Textbook: Mason, Principles of Geochemistry.

- (ii) Geology 107. Advanced Petrology (Igneous and Metamorphic) 6 hrs.
D.H. Simpson

A study of the crust of the earth, its structure and composition; the physical chemistry of rock-forming minerals; classification of igneous rocks; magmas and magmatic products; granitization; classification of metamorphic rocks; metamorphic processes.
Textbooks: Barth, Theoretical Petrology; Turner and Verhoogen, Igneous and Metamorphic Petrology; Williams, Turner and Gilbert, Petrography.

Motion carried.

C. Department of History

Dr. Collins moved, seconded by Dr. Hanson, that the following new course in History be approved:

- History 66. The Politics of Europe, 1914 - 1954 3 hrs.
E.J. Weber

A survey of politics and public opinion in the history of European countries during the first half of the Twentieth Century. Special attention will be given (1) to the development of revolutionary dictatorships and their basis in popular support, (2) to European problems after 1944, and the Communist challenge.

Carried.

December 6, 1954.

D. Department of Philosophy and Psychology

Professor Card moved, seconded by Dr. Wonders, that new courses in Sociology be approved as follows:

- (i) Sociology 1. Introductory Sociology 3 hrs.
 The field of sociology; social groups; culture and personality; human ecology; institutions; social interaction; social change; social control. (This course is recommended as a prerequisite for further work in sociology.)
- (ii) Sociology 53. Social Organization 3 hrs.
 Theories of social organization; analytical frames of reference; intensive study of selected social forms such as kinship groups, institutions, social classes and professions, and the manner in which these are integrated into functioning social systems.
 Prerequisite: a first course in sociology.
- (iii) Sociology 54. Social Problems 3 hrs.
 Nature of social problems; their relation to social change, behaviour, values and action; analysis of specific social problems such as delinquency, crime, old age, unemployment, housing, family disorganization, and group conflict.
 Prerequisite: a first course in sociology.

At Professor Salter's suggestion, Council agreed to change the wording in the description of Sociology 53 as follows: the words "analytical frames of reference" should be replaced by the words "methods of analysing social organization". Dr. Smith expressed the view that the presence of two introductory courses, one junior and one senior, would lead to difficulties. The motion was carried.

Dr. Morrison asked whether it was the usual procedure first to outline new courses and then to bring in a new appointment. The Chairman explained that the procedure of first setting up a general outline of a new course and then bringing in a new staff member had proved the most satisfactory one.

It was moved by Dr. Smith, seconded by Dr. Spearman, that new courses in Philosophy and Psychology be approved as follows:

- (iv) Philosophy 113. Philosophy of Mind 3 hrs.

- (v) Psychology 115. Seminar in Social Psychology 3 hrs.
Prerequisite: Psychology 52
- (vi) Psychology 116. Advanced Clinical Psychometrics (3 hrs. lect.,
Prerequisite: Psychology 107 (3 hrs. lab.
- (vii) Psychology 117. Research in Personality (3 hrs. lect.,
and Social Psychology (3 hrs. lab.
Prerequisites: Psychology 59;
and Psychology 52 or 62.

Dr. Smith added that these courses would be offered alternately.

Motion carried.

E. Department of Biochemistry

Dr. Collier moved, seconded by Dr. Tuba, that the following course be approved:

105. Advanced Plant Biochemistry 3 hrs. lect. second term
Mary S. Spencer
Selected topics in plant metabolism, with evaluation of recent research. Methods of investigation in this field will be discussed.
Prerequisite: Biochemistry 71.
(no additional staff or facilities required.)

Motion carried.

4. New Patterns

A. Department of Political Economy

Dr. Wonders presented to Council a proposed B.A. Pattern and a proposed B.Sc. Pattern in Geography. He explained that these two ways of approach had been made necessary by existing regulations in this University and moved, seconded by Dr. Hanson, that both be approved as follows:

(1) B.A. Pattern in Geography

First Year Geography 1
English 2
A junior course from Division B
An A or B option
A science or mathematics course
Physical Education

December 6, 1954.

Second Year Geography 50
 Geography 52
 An approved B option
 An approved A or B option
 A science or mathematics course

Third Year Geography 70
 Geography 71 or 51
 An approved B option
 An option
 A science or mathematics course

(ii) B.Sc. Pattern in Geography

First Year Geography 1
 English 2 or 5
 Geology 1
 One of Botany 1, Zoology 1
 One of Mathematics 1 or 45, Physics 41, Chemistry 40

Second Year Geography 50
 Geography 52
 An approved option in Geology
 An approved option in Botany or Zoology
 An approved option in Mathematics or Physics or
 Chemistry

Third Year Geography 70
 Geography 71 or 51
 Special A or B course
 An option
 An approved Division C option

Dr. Walker asked if the approved option in Botany or Zoology in the second year of the B.Sc. program should be a senior course. Dr. Wonders replied that a junior course would be satisfactory, as was the case in other B.Sc. patterns. Dr. Wyman pointed out that no special A or B course was prescribed in the second year of the B.Sc. pattern. Dr. Wonders replied that Geography 50 was itself a B Division course and included in List II of special A or B courses for B.Sc. students. Dr. Blackley pointed out that Physical Education should be added to the first year of the B.Sc. pattern. With these adjustments, the motion was carried.

5. New Honors Program - Department of Political Economy

Dr. Mayo moved, seconded by Dr. Hanson, that an Honors program in Political Science be approved as follows:

First Year Political Science 3
 one course from Division A
 one course from Division C
 two options to be selected with the advice of the Department
 Physical Education

Second Year Two courses in Political Science
 three options to be chosen in consultation with the Department

Third and Fourth Years

Before entering the third year each student will arrange, in consultation with the Department, a program of study and lectures to prepare himself for final examination.

It was agreed to amend the Third and Fourth Years program to read:

Before entering the third year each student will arrange, in consultation with the Department, a program of study and lectures to prepare himself for final comprehensive examinations (written and oral).

With this amendment, the motion was carried.

6. Course Changes.

A. Department of Physics

Dr. Grayson-Smith moved, seconded by Dr. Scott, that the following changes in course descriptions be approved:

43. Light, Electricity, and Magnetism 3 hrs. lect., 2 hrs. lab.

A course designed to follow Physics 40 and to give a foundation in Physics suitable for work in other physical sciences. Propagation of light, lenses and optical instruments, photometry, interference and diffraction. Electrostatics, potential, capacitors, DC circuits, magnetism and magnetic field, electromagnetism, induced EMF, self-inductance, introduction to alternating currents.

Textbook: Sears and Zemansky, University Physics, Part II, (Electricity and Light).

Prerequisite: Physics 21 or 40. Mathematics 1.

(Note: This course has been approved in principle, to be first offered in 1955-56, and a more detailed description is now presented. It is made necessary by the revision of the Engineering curriculum, but is also to be available to students in Arts and Science.)

50. Prerequisite: A University course in Physics, Mathematics 1.
 (Mathematics requirement is new.)

60. Geophysics 3 hrs. lect., 3 hrs. lab.

(no change in description)

Prerequisite: Physics 46, Mathematics 40.

(Increase in lab. from Half-year to full-year, change in prerequisite.)

December 6, 1954.

Dr. Grayson-Smith added that Physics 43 had already been approved in principle, but the description was new and it was now available to Arts and Science students. Dr. Newbound suggested that the prerequisite for Physics 60 be changed to read: Physics 43 or 46, Mathematics 40. With this amendment, the motion was carried.

B. Department of Political Economy

Dr. Hanson presented to Council the following new description of Economics 61:

Economics 61. Canadian Economic Development 3 hrs.

An examination of the development of the Canadian Economy with special emphasis on the period since Confederation.

Dr. Hanson explained that this course had been discussed with the History Department and was, in a sense, a course in Economic History; it would give a strong background in Economic Analysis and might be opened to students with Economics 1.

Dr. Mayo presented the new description of Political Science 56 as follows:

Political Science 56. Federal and local government 3 hrs.
H.B. Mayo

A study of the operation and problems of federalism - based mainly on constitutional practice in Canada, but with some attention to other federal states. The second part is a study of the organization, functions, and problems of local government in Canada and elsewhere.

Dr. Mayo explained that this course was a combination of the former Political Science 56 and Political Science 57, since two full courses in Federal Government and Local Government were not considered necessary. Dr. Hanson moved, seconded by Dr. Mayo, that both the above new course descriptions be approved. The motion was carried.

C. Department of Entomology

Dr. Hocking moved, seconded by Dr. Moore, that the following addition be made to the course description of Entomology 41:

Add: Prerequisite or co-requisite at least one half course in both Botany and Zoology.

Dr. Smith pointed out that this would make it impossible for B.A. students to take Entomology as a C Division course. It was then agreed to amend the proposed addition to read;

Prerequisite or co-requisite: Biology 41 or at least one half course in both Botany and Zoology.

With this amendment, the motion was carried.

D. School of Household Economics

It was moved by Miss Patrick, seconded by Miss Duggan, that the revised course descriptions be approved as follows:

H.Ec. 51. Foods and Nutrition 3 hrs. lect., 3 hrs. lab.

The composition and nutritive value of foods and the nutrition requirements of individuals. Laboratory practice in food preparation, planning diets and serving meals.

H.Ec. 45. Color and Design 3 hrs. lect., 3 hrs. lab.

The study of the principles of art and their application to exterior and interior house design. Creative problems in various media for home and personal use.

The Chairman explained that Household Economics 51 had not been active for some time, though, before the Patterns were instituted, the course had been offered as an option to Arts and Science students. At the suggestion of Professor Glyde, it was agreed to replace the word "art" in the description of Household Economics 45 by the word "design". With this amendment, the motion was carried.

E. Department of Plant Science

Genetics 51 L.V.P. Johnson 3 hrs. lect., 2 hrs. lab.

A survey of the field of Genetics covering the basic principles and emphasizing the relations of genetics to plant and animal improvement, human inheritance and eugenics, ontogeny, and organic evolution.

December 6, 1954.

The laboratory work includes a study of statistical bases of common genetic ratios; breeding experiments with *Drosophila* and inheritance studies in maize, with application of genetic analyses and goodness-of-fit tests to resulting data; introduction to plant hybridization and cytogenetic techniques. Laboratory periods will not be held regularly, but practical work will be carried on periodically according to the demands of the course. The work will amount to an average of about two hours a week.

Textbook: Altenburg, Genetics.

Prerequisite: Botany 1 or Zoology 1.

The Chairman pointed out that the words "3 hrs. lect., 2 hrs. lab." had been used in the description, but that the laboratory hours indicated an average rather than fixed hours, due to the nature of the work done in this laboratory. Dr. Miller said that the Department of Zoology was satisfied with this arrangement. He moved, seconded by Dr. Moore, that the above course description be approved. The motion was carried.

F. Department of Philosophy and Psychology

Dr. Smith moved, seconded by Dr. Spearman, that the following changes in course descriptions be approved:

Psychology 52. Social Psychology

3 hrs.

Delete entire description, and substitute:

"The application of psychological principles to the understanding of human behaviour in various social settings.

Prerequisite: Psychology 40."

Psychology 102.

Add the words "Seminar in" to the title;
delete the words "an introduction to" in the first line;
delete the words "neurotic conflict" in the second line, and
substitute "and adjustment";
change the prerequisite to read "Psychology 61".

The description will now read:

"Psychology 102. Seminar in Abnormal Psychology. 3 hrs.

The psychodynamics of abnormal behaviour, as a basis of understanding mental development and adjustment, the psychoneuroses, the functional psychoses, and treatment.

Prerequisite: Psychology 61."

Motion carried.

Third Year A or B course
Bacteriology 61
Biochemistry 52/54 (full course)
Clinical Pathology (half course)
a C option
an option.

December 6, 1954.

Dr. Whyte expressed regret at the dropping of Botany 1 from the first year and asked why this was necessary. Dr. Collier replied that Physiology 61 had to come in the second year and that this made it necessary to put Physics 1 or 41 in the first year, in order that the program might contain all those courses considered necessary by members of the Joint Committee which had been set up for the purpose by the Faculties of Medicine and Arts and Science. The motion was carried.

Dr. Collier added that additional staff as well as space would be required for this program, and the Chairman assured Council that this would be made clear to the Committee on Time-tables and New Courses.

Dr. Collier then moved, seconded by Dr. Tuba, that the sentence introducing the Special B.Sc. program in the calendar be amended to read:

This course is designed for the training of men and women, who wish to fit themselves for positions in public health and clinical laboratories,

and that a further sentence be added at the end of the course description, as follows:

Edmonton hospitals are willing to accept graduates from this pattern as apprentices.

Although, so far, Dr. Collier had consulted with Edmonton hospitals only, it was agreed to delete the word "Edmonton" and substitute "Some hospitals in the province". With this amendment, the motion was carried.

C. Physics

Dr. Grayson-Smith moved, seconded by Dr. Scott, that the following changes in the Physics pattern, made necessary by the reduced Mathematics of matriculation, be approved:

Second Year Physics 46
 Special A or B course
 Mathematics 40 and 41
 One of Botany 1, Zoology 1, Geology 1, Chemistry 42

Third Year (1955-56 only) as at present

Motion carried.

D. Entomology

Dr. Hocking moved, seconded by Dr. Moore, that the following changes in the Entomology pattern be approved:

1. Interchange Entomology 41 from the first year with Physics 1 or 41 in the second year.
2. Add Geology 53 to the alternatives in the second year and in the third year.

Motion carried.

E. Zoology

It was moved by Dr. Moore, seconded by Dr. Cormack, that the following change be approved:

Interchange "Entomology 41" (now first year) with "Geology 1 or Mathematics 45" (now second year).

Motion carried.

F. Mathematics

Professor Keeping moved, seconded by Dr. Wyman, that the following revised program for second year Mathematics be approved, which represented merely routine changes:

Mathematics 40
 Mathematics 41 or 45 or 50 or 51
 Physics 46
 Special A or B course
 one of Botany 1, Zoology 1, Geology 1, Chemistry 42.

The motion was carried.

8. Changes in Honors Programs

A. Department of Mathematics

Professor Keeping moved, seconded by Dr. Wyman, that the revised

Honors program in Mathematics be approved as follows:

December 6, 1954.

Second Year Mathematics 40
 Mathematics 50 or 51
 Mathematics 41
 Option from Division C
 Option from Divisions A or B

Third Year Mathematics 55
 Mathematics 51 or 50
 Mathematics 61
 two options, at least one of which must be
 from another Department

Fourth Year Mathematics 102
 Mathematics 103
 Option from Divisions A or B
 two options from Mathematics or from
 other Departments

Note: The program selected must be approved by the Department of Mathematics. Students who hope to do graduate work in Mathematics are strongly advised to select three of the open options in third and fourth year from courses offered by the Department; some of these courses may be in Mechanics, Hydrodynamics, Statistics, Quantum Theory, or other branches of Applied Mathematics. Students who plan to enter the field of Theoretical Physics are advised to choose their options from Physics and Applied Mathematics. Students interested in Economics should choose options in Statistics and Political Economy.

The Chairman pointed out that this program had not been before the Honors Committee; but since members of the Honors Committee were also members of the Council of the Faculty of Arts and Science, they would be able to deal with it satisfactorily at the present meeting. The motion was carried.

B. Department of Physics

It was moved by Professor Grayson-Smith, seconded by Dr. Scott, that the revised program for second year Honors Physics be approved as follows:

Second Year Physics 42
 Physics 46
 Mathematics 40
 Mathematics 41
 an option from Division A or B to be selected
 in consultation with the Department

Professor Grayson-Smith pointed out that the changes in Physics arise from the new matriculation, and consequent changes in the University curriculum in Mathematics. Students affected by these changes are now entering the second year. The motion was carried.

9. Petition from Mr. Fred Blower re credit for Art courses

The Chairman presented to Council the case of Mr. Fred Blower, a student in the Diploma program in Art, who had submitted a petition that he be given credit in a number of Extension courses in Art subjects taken during the past nine years. He had obtained standing in Art 40 and Art 45 last year, and, if he were allowed credit for his Extension courses, the remaining part of his first year would be regarded as complete. His main reason for doing this is to equip himself for the private teaching of art after his retirement. Professor Glyde moved, seconded by Professor Taylor, that Mr. Blower's request be granted. The Registrar stated that he could see no objection to the granting of Mr. Blower's request, since this was a special case. The motion was carried.

10. Household Economics 51 and 45 as options for B.A. or B.Sc. students

The Chairman informed Council that he had had a number of requests from B.A. and B.Sc. students for permission to take Household Economics courses as options, as had been possible in former years. Dr. Smith stated that the question had been before the Patterns Committee, but the Committee had felt that Household Economics courses were, in content and weight, not equal to Arts and Science course and that, therefore, they could not be approved as C division options in the Faculty of Arts and Science. After some discussion, it was moved by Miss Duggan, seconded by Professor Card, that Household Economics 51 and Household Economics 45, as revised, be approved as open options in the third year for Arts and Science students. Motion Carried. It was agreed that in the list of Divisions Household Economics 45 should be listed under Division A, and Household Economics 51 under Division C.

11. National Research Council - Grants and Fellowships

The Chairman reminded members of Council that, as in previous years, a supply of forms for National Research Council grants had been received and was in the hands of the Departments concerned. A letter from Dean McCalla had

December 6, 1954.

also been received regarding N.R.C. Postdoctorate Fellowships, and any staff members interested were asked to discuss a possible application with Dean McCalla.

The meeting adjourned at 6:15 p.m.

Walter H. Johns
Dean

February 7, 1955.

Minutes of the 454th meeting of the Council of the Faculty of Arts and Science, held on February 7, 1955, at 4:30 p.m. in the Senate Chamber.

Present were:- Dean Johns in the Chair; Professors Blackley, Brown, Card, Collier, Collins, Cormack, Crosby, Davis, Duggan, Glyde, Gowan, Grayson-Smith, Greene, Hanson, Harris, Hocking, Jones, Keeping, Kreisel, May, Moore, Morrison, Newbound, Nichols, Patrick, Ryan, Scott, Smith, Stelck, Stuart, Thomas, Walker, Warren, Whyte, Wonders, and the Registrar.

1. Minutes of the meeting of December 6, 1954.

The Chairman pointed out a typographical error in the mimeographed copies of the minutes of the above meeting:- The last sentence under item 10 should read "It was agreed that in the list of Divisions Household Economics 51 should be listed under Division C, and Household Economics 45 under Division A". Dr. Cormack moved, seconded by Dr. Collier, that, with this correction, the minutes be approved as circulated. The motion was carried.

BUSINESS ARISING FROM THE MINUTES

2. New courses in Sociology

The Chairman reported that the new courses in Sociology, namely -

- Sociology 1. Introductory Sociology
- Sociology 53. Social Organization
- Sociology 54. Social Problems

had been approved by General Faculty Council with the stipulation that they be not offered until adequate staff is available, but that they would be included in next year's calendar.

3. Genetics 51

The Chairman reported that the description of this course passed by General Faculty Council was different from that passed in the Council of the Faculty of Arts and Science and that, in the revised form, the wording was as follows:-

February 7, 1955.

51. Genetics3 hrs. lect., 4 hrs. ^{*}lab., 1st term;
3 hrs. lect., 2nd term.

L.P.V. Johnson

A survey of genetics covering the basic principles and emphasizing the relation of this science to plant and animal improvement, human inheritance and eugenics, medicine, sociology, ontogeny, and organic evolution. Classroom demonstrations. Laboratory work covers: the statistical bases of common genotypic and phenotypic ratios; breeding experiments with *Drosophila* and maize, with application of genetic analyses and goodness-of-fit tests to resulting data; introduction to cytogenetic and plant hybridization techniques; student projects.

Textbook: Altenburg, Genetics.

Prerequisite: Botany 1 or Zoology 1 (these prerequisites will be waived in certain cases.)

* 3 hrs. lab., 1 hr. assigned projects

It was moved by Dr. Cormack, seconded by Dr. Moore, that Council approve the revised wording. There was some discussion as to the advisability of including the clause "(these prerequisites will be waived in certain cases)" in the Arts and Science calendar, and Dr. Whyte moved, seconded by Dr. Smith, that it be deleted in the course description appearing in the Arts and Science calendar. The amendment was carried. The motion as amended was then put and carried. The Chairman stated that the item would be referred back to General Faculty Council to be dealt with at the next meeting of that body.

4. Special B.Sc. Pattern

The Chairman reported that the Special B.Sc. pattern, as passed at the last meeting of the Council of the Faculty of Arts and Science, had been approved by General Faculty Council subject to completing satisfactory arrangements with the Departments concerned in the Faculty of Medicine.

NEW BUSINESS

5. New Courses(a) Business Administration 40

The following course, already approved by General Faculty Council, was submitted to the Council of the Faculty of Arts and Science for consideration and approval:-

40. Business Administration - General

3 hrs.

Professor Ben A. Lindberg and Asst. Professor Boris A. Gardave

A general course in business administration designed to acquaint the student with a variety of business problems from the point of view of the administrator and to help the student develop the capacity for reaching effective decisions on the basis of available, though incomplete, information.

The course will deal with problems involved in the forming of a company, in the use of figures, in the relationships between administrators and workers, in the use and significance of financial statements, in the marketing of consumer products, and in the relationships of business and industry to government and to society as a whole.

It was moved by Dr. Hanson, seconded by Dr. Moore, that this Council concur in the action of General Faculty Council in approving Business Administration 40 as an option in this Faculty. The Chairman explained that Business Administration 40 was an introductory course, which would be listed as a B division course and could be taken as an option by Arts and Science students, although, originally, it was not intended for students in this Faculty, but chiefly for fourth year Engineering students. In answer to a question, Dr. Hanson stated that he felt the course would fill a need, but that he would prefer to see students in the Department of Political Economy take senior courses rather than this introductory course. The Chairman added that it would be left to the Departments to approve the course as an open option for their students. The motion was then put and carried.

(b) Genetics 52

The Chairman read out to Council a letter received from Dean H.E. Smith of the Faculty of Education, asking that Genetics 52 be made available as an option in the Faculty of Arts and Science for students in the Faculty of Education. The course description reads as follows:-

52. Genetics

L.P.V. Johnson

3 hrs. lect.

The lecture part of Genetics 51.

Textbook and prerequisites: the same as for Genetics 51.

February 7, 1955.

It was moved by Dr. Whyte, seconded by Dr. Collier, that Genetics 52 be included in the calendar of the Faculty of Arts and Science as a B division course. In the ensuing discussion, consideration was given to the alternative possibility of approving the course as a C division option for B.A. and B.Ed. students. It was pointed out that there were already available social science courses more appropriate to Arts and Science programs. Professor Card stated that Education students would take the course as a science course, not as a social science. The motion was then put and lost. The Chairman asked whether anyone wished to move that Genetics 52 be approved as a C division course. Since no motion was made, it was felt that it would be advisable for the Faculty of Education to approach the Faculty of Agriculture directly regarding the course.

(c) Physics 59

It was moved by Dr. Grayson-Smith, seconded by Dr. Newbound, that the following course be approved:-

Physics 59. Introduction to Physics of the Earth 3 hrs. lect., 3 hrs. lab.
G.D. Garland

A course designed to follow Physics 41 and introduce physical methods of studying earth structures. Principles of elasticity and gravitation. Introduction of AC circuits. Physical properties of the earth as indicated by earthquake waves, gravity and magnetic measurements. Heat flow in the earth's crust, radioactivity of rocks.

Prerequisites:- Physics 41, Mathematics 40.

Dr. Grayson-Smith explained the purpose of the course as follows:- A number of students interested in Physics 60 (Geophysics) are barred from that course because of the prerequisites, and Physics 59 is introduced in order that these students might take it. The motion was carried.

6. Course changes

(a) Business Administration 55

It was moved by Dr. Hanson, seconded by Dr. Smith, that the revised description, which had already been passed by General Faculty Council, be approved by this Council:-

55. Business Administration - Introductory 3 hrs.
Professor Ben A. Lindberg and Asst. Professor Boris A. Gardave.

An introductory course in business administration designed to acquaint the student with business problems from the point of view of the administrator and to help the student to develop the capacity for making wise decisions on the basis of available, though incomplete, information.

The course will deal with problems involved in the analysis and use of financial data, changes in credit terms, "make" or "buy" decisions, production methods and sales programs, labor relations and personnel, and the relationship of business and industry to government and to society as a whole.

The motion was carried.

(b) Business Administration 56

It was moved by Dr. Hanson, seconded by Professor Card, that the following revised description be approved:-

56. Business Administration - Marketing 3 hrs.
Professor Ben A. Lindberg and Asst. Professor Boris A. Gardave

A continuation of the work in Business Administration 55, with special attention to marketing problems including the preparation of a product of sale, the choice of distribution channels, sales personnel and training and sales administration generally.
Prerequisite:- Business Administration 55.

The motion was carried.

(c) Physics 60

It was moved by Dr. Grayson-Smith, seconded by Dr. Nichols, that Physics 60 be amended by the addition of the words "Co-requisite: Mathematics 55". Carried.

Special Case - Mr. Samuel R.J. White

The Chairman announced that Mr. White had withdrawn his petition.

7. Invitation to Varsity Guest Weekend

The Chairman extended, not only to members of Council but to all members of the academic staff, an invitation to attend the social functions of the Varsity Guest Weekend, especially the reception on Saturday, February 26, 1955.

8. N.C.C.U. Vacancies

The Chairman informed members of Council that announcements of N.C.C.U. vacancies are constantly available in the Dean's Office, and while it was

February 7, 1955.

impracticable to circulate them to the various Departments, they would be kept in the office for any who were interested.

9. Department of Geology

(a) Pattern

It was moved by Dr. Warren, seconded by Dr. Stelck, that a new Geology pattern be approved as follows:-

<u>First Year</u>	Geology 1 Chemistry 40 Mathematics 1 Physics 41 English 5 or 2 Physical Education
<u>Second Year</u>	Geology 51 Geology 53 Special A or B course Mathematics 40 one of Botany 1, Zoology.1
<u>Third Year</u>	two of Geology 54, 55, 57 Special A or B course Chemistry 54 an option

Dr. D.E. Smith stated that this would be satisfactory to the Patterns Committee.

The motion was carried.

(b) Honors program

Dr. Warren then moved, seconded by Dr. Stelck, that an Honors program in Geology be approved as follows:-

<u>First Year</u>	Geology 1 Mathematics 1 Chemistry 40 Physics 41 English 5 or 2 Physical Education
<u>Second Year</u>	Geology 51 Geology 53 Special A or B course Mathematics 40 either Botany 1 or Zoology 1

Third Year Geology 54
 Geology 55
 Geology 57
 Chemistry 54
 an option *

Fourth Year Geology 58
 Geology 59
 three options*

* A course in Geophysics (Physics 59 or 60) should be included in either the third or fourth year.

Professor Keeping suggested, and Council agreed, that the footnote be amended to read:-

* One of these options must be from the A or B divisions, and one should be a course in Geophysics.

With this amendment, the motion was carried.

10. Report of Standing Committee on Patterns

Dr. Smith, in his capacity of Chairman of the Standing Committee on Patterns, presented to Council a report which had already been circulated to members of Council as an appendix to the agenda for the present meeting. He moved, seconded by Dr. Greene, that the report be approved. Professor Grayson-Smith commented that there was an increased rigidity in the Physical Science Patterns, due to the reduction in Mathematics at the matriculation level, making it necessary to prescribe a mathematics course in the second year as well as the first for patterns such as Chemistry and Geology. In general, much of the apparent leeway, beyond the five courses in the area of concentration, was taken up by required ancillary courses.

Dr. Greene raised the question of reducing the number of courses in the area of concentration from five to four, but this was not felt to be practicable. The Chairman suggested that it might be worthwhile to encourage more students to enroll in Honors programs in the first instance.

The motion was carried. The Chairman stated that acceptance of the report implied general agreement on the part of the Council of the Faculty of Arts and Science with the policy of the Patterns Committee in keeping in mind

February 7, 1955.

the original principles in their scrutiny of existing patterns and in dealing with proposed pattern changes.

11. Chemistry 54 (a)

Dr. Walker reported that the Faculty of Engineering at its last meeting authorized a modification of Chemistry 54 for students in Petroleum Engineering only. The change made is to reduce the laboratory requirements from three hours a week to three hours every other week. He suggested that this should be designated as a new course, Chemistry 54 (a), and moved that it be approved as follows:-

Chemistry 54 (a) <u>Elementary Physical Chemistry</u>	3 hrs. lect., 3 hrs. lab.
for Petroleum Engineering students only	every other week

Lectures:- Fundamental concepts of matter in relation to energy; thermo-chemistry, properties of gases, liquids and solids; solutions, equilibrium, phase rule, electrolytes, electromotive force, colloids.

Laboratory:- Physico-chemical measurements.

Textbooks:- Prutton and Maron, Fundamental Principles of Physical Chemistry; Daniels, Outlines of Physical Chemistry; Hodgman, Handbook of Chemistry and Physics.

Prerequisites:- Chemistry 40 and Physics 21.

The motion was seconded by Dr. Davies and carried.

12. Changes in Christmas Test results

The Chairman asked that instructors inform the Registrar and the Dean of any changes in Christmas test results as soon as possible after the beginning of the second term.

The meeting adjourned at 6:00 p.m.

Walter H. Johnson

Dean

April 4, 1955.

Minutes of the 455th meeting of the Council of the Faculty of Arts and Science, held on April 4, 1955, at 4:30 p.m. in the Senate Chamber.

Present were:- Dean Johns in the Chair; Professors Blackley, Collier, Collins, Cormack, Crosby, Davis, Duggan, Glyde, Grayson-Smith, Greene, Hanson, Harris, Harrold, Jones, Keeping, Kreisel, May, Miller, Moore, Newbound, Nichols, Patrick, Phibbs, Ryan, Salter, Scargill, Scott, Smith, Spearman, Stelck, Thomas, Tuba, Walker, Whyte, Wonders, Wyman, and the Registrar.

On behalf of the Council of the Faculty of Arts and Science, the Chairman extended congratulations on the recent promotion of the following members of Council:- Professor L.H. Nichols, and Associate Professors H. Kreisel, D. Spearman, and W.C. Wonders. The Chairman then welcomed as new statutory members Associate Professors T. Fostvedt, W.D. Gainer, D. Goodale, J.H. Harrold, W. Mackenzie, as well as Associate Professors M.M. Self, A. Gibb, and A.R. Prince, who are members of the staff at the Calgary Branch and, therefore, will be unable to attend meetings of this Council regularly.

1. Minutes of Meeting of February 7, 1955

It was moved by Dr. Smith, seconded by Dr. Whyte, that the minutes of the last meeting be approved as circulated. The motion was carried.

2. Personnel of Honors Committee and Revisions Committee

The Chairman suggested that it might be advisable to appoint Dr. E.J. Hanson to the Committee on Honors, since it was expected that a number of students would elect Honors programs from the Department of Political Economy. It was moved by Dr. Wonders, seconded by Dr. Moore, that Dr. Hanson be asked to act on the Honors Committee. Carried.

The Chairman then informed Council of the expiration of Dr. Davis' term on the Revisions Committee at the end of the present academic session and invited suggestions for his replacement, pointing out that it might be

April 4, 1955.

advantageous to have a representative from the biological sciences on the Revisions Committee. It was moved by Dr. Davis, seconded by Dr. Collier, that Dr. Nursall be appointed to the Revisions Committee. Dr. Nursall had already indicated his willingness to act on that Committee. The motion was carried.

3. Special cases

Dr. Hanson presented to Council the case of Ronald Ian McKinnon, who had requested retroactive admission to the Honors program in Economics. Dr. Hanson said that Mr. McKinnon was an excellent student and that it would be feasible to comply with his request. He moved, seconded by Dr. Wonders, that Mr. McKinnon's present registration be considered as a registration in the third year of the Honors program in Economics. The motion was carried.

Dr. Davis, in his capacity of Chairman of the Revisions Committee, then presented a number of cases on which the Revisions Committee wished the guidance of the Council of the Faculty of Arts and Science. Mr. Gary Mervin Archibald had requested his transfer from the third year of Honors Geology to the third year of the pass course in Geology, so that on the satisfactory completion of his present program he might get his B.Sc. degree and work towards a Master's degree at the University of British Columbia. Dr. Davis moved, seconded by Dr. Stelck, that Mr. Archibald's request be granted. Motion carried.

Mr. Merle Ian Scott had asked for his transfer from the third year Honors Chemistry to the third year of the pass course in Chemistry, so that he might receive his B.Sc. degree at the Spring Convocation, before embarking on a program leading to the B.A. in English. Dr. Davis moved, seconded by Dr. Walker, that on the satisfactory completion of his present program Mr. Scott be granted his degree. Carried.

Mr. William Takao Nakamura, who has the required number of seconds, but is one course short for the degree of B.Sc., had asked permission to offer one course taken this year in the Faculty of Medicine instead, so that on the satisfactory

completion of his first year in the Faculty of Medicine he might receive his degree of B.Sc. at the Spring Convocation. Dr. Davis moved, seconded by Professor Nichols, that Mr. Nakamura's request be approved subject to satisfactory completion of the first year of his program in the Faculty of Medicine. Carried.

Miss Carol Frances Collier had requested her transfer from the Honors to the pass course in English, in order that she might receive the general B.A. degree at the Spring Convocation and work towards a Master's degree at Queen's University. Dr. Davis pointed out that Miss Collier offered only one science, but that in similar cases this had been accepted previously. He moved, seconded by Dr. Smith, that Miss Collier's request be granted, subject to satisfactory completion of her present program. Motion carried.

Miss Mary-Helen Michael, a student in the second year of the Mathematics Pattern, had requested permission to substitute Accounting 1 for Physics 46 in her third year and to take Accounting 52 instead of the Physics or Chemistry course prescribed. She felt that her interests and abilities lay in the Mathematics of Business rather than in Physics and she planned on a career in Business, using Financial and Statistical Mathematics and Accounting. Professor Keeping stated that he found Miss Michael's request reasonable and moved, seconded by Dr. Wyman, that it be granted. The motion was carried.

4. Change in Special B.Sc. Pattern

The Chairman announced that the General Faculty Council at its January meeting had approved the program for the Special B.Sc. course as revised, provided that satisfactory arrangements could be made for offering Physiology 61 in the second year. At the suggestion of Dean Scott of the Faculty of Medicine, General Faculty Council at the March meeting had passed a motion, subject to concurrence of the Council of the Faculty of Arts and Science, that the fifth course in the second year of the Pattern should read:-

an option from Botany, Entomology, Genetics, Mathematics,
Zoology, or Physiology 61.

April 4, 1955.

5. Date of next meeting

The Chairman announced that the regular Pre-Convocation Meeting would take place at 9:00 a.m. on Tuesday, May 10, 1955.

6. Next meeting of Committee on Honors

Dr. Walker moved, seconded by Dr. Hanson, that the next meeting of the Honors Committee be scheduled for 2:00 p.m. on May 6, 1955. Carried.

7. Suggestion regarding Bookstore

Professor Ryan suggested that the sale of books in the University Bookstore at the beginning of the session might be speeded up if the various Departments could find out from the students how many wanted to buy all books prescribed for a particular course, and pass this information on to the Bookstore. The necessary books for certain courses could then be sold by the Bookstore in packages made up beforehand.

8. C division course for B.A. students

The Chairman wished to draw attention to the fact that Chemistry 42 is not included in the list of C division courses open to B.A. students, though they frequently ask to take it. Dr. Walker stated that the Department of Chemistry would have no serious objection to Arts students taking the course, if they were told that they would pass up certain fundamentals by taking it instead of Chemistry 40. Dr. Smith moved, seconded by Miss Duggan, that Chemistry 42 be included in the group of C division courses open to B.A. students. Dr. Grayson-Smith moved, seconded by Dr. Scott, that the question be referred to the Chemistry Department and by that Department to the Standing Committee on Patterns, who could then make a recommendation to this Council. The amendment was carried, with sixteen votes in favour and fourteen opposed; the original motion was thereby defeated.

9. Special A or B options for B.Sc. students

The Chairman stated that, according to the present rules, B.Sc. students were unable to register in their foreign language of matriculation in the second year of

their course. He suggested that the words "Any senior Foreign Language course" under List I be amended to read:-

"any foreign language course other than a beginning course".

Dr. Greene moved, seconded by Dr. Moore, that List I be amended accordingly. The motion was carried.

Dr. Hanson moved, seconded by Dr. Wonders, that the following new courses be added to List II:-

Geography 51, 70, and 71,
any senior Political Science course.

The motion was carried.

It was moved by Dr. Smith, seconded by Dr. Blackley, that Philosophy 60 be included in List I. Carried.

10. Combined program leading to B.A. and LL.B.

It was moved by Dr. Hanson, seconded by Dr. Smith, that the prescription for the second year of the combined course leading to the degrees of B.A. and LL.B. be amended as follows:-

Under "Second Year", line 5, delete:- "Political Science 63 or Economics 66
or 67 or 69 or Philosophy 52".

Substitute:- "Any senior course in Political Economy or Political Science
or Philosophy 52, Psychology 58 or Sociology 51".

The motion was carried.

It was moved by Dr. Walker, seconded by Dr. Wyman, that the last course in the second year of the combined program leading to the degrees of B.A. and LL.B. be amended to read "a course from division C" only, subject to concurrence by the Faculty of Law. The motion was carried, and the Chairman stated that, if the Faculty of Law concurred, the proposed change would be submitted to General Faculty Council.

11. Mathematics 110 - Final examination

Professor Keeping moved, seconded by Dr. Wyman, that the Mathematics Department be allowed to dispense with the formal examination in Mathematics 110, Carried.

April 4, 1955.

12. Honors Programs

It was moved by Professor Salter, seconded by Dr. Stelck, that the Honors Committee be asked to consider the suggestion that, instead of the present Honors programs, students be required to take the pass course and that, on the completion of three years with an average of 65% or better, they be accepted into the final "Honors" year, for which the respective Departments could work out suitable programs. In the ensuing discussion members of various Departments pointed out that this procedure could not work. The motion was lost.

The meeting adjourned at 5:55 p.m.

Walter H. Johns.
Dean.

Minutes of the 456th meeting of the Council of the Faculty of Arts and Science, held on May 10, 1955, at 9:00 a.m. in the Senate Chamber.

Present were:- Dean Johns in the chair; Professors Brown, Card, Collier, Collins, Cook, Cormack, Crosby, Davis, Fostvedt, Gainer, Glyde, Gowan, Grayson-Smith, Greene, Hanson, Harris, Harrold, Hocking, Horton (by invitation), Jones, Keeping, MacKenzie, Miller, Moore, Moss, Mueller, Newbound, Nichols, Patrick, Phibbs, Rowan, Ryan, Salter, Scargill, Scott, Smith, Stelck, Thomas, Tuba, Walker, Warren, the Registrar, and the Assistant to the Registrar (Mr. Hawes).

1. Minutes of the meeting of April 4, 1955

It was moved by Dr. Hocking, seconded by Dr. Collier, that the minutes of the meeting of April 4, 1955, be approved as circulated. Motion carried.

BUSINESS ARISING FROM THE MINUTES

2. Addition of Chemistry 42 to list of C division options for B.A. students

In the meeting of April 4, 1955, the Council of the Faculty of Arts and Science had asked Dean Johns to refer to the Department of Chemistry, for their consideration, the question whether Chemistry 42 should be included in the list of C division options open to B.A. students. The Chairman was now able to report to Council that the Department of Chemistry was opposed to the inclusion of this course in the C division options open to B.A. students and that the Standing Committee on Patterns concurred in this view. The decision was endorsed by the Council of the Faculty of Arts and Science.

3. Report on B.Sc. matriculation

In their meeting on December 6, 1954, the Council of the Faculty of Arts and Science had passed a motion to the effect that all B.Sc. candidates be required to present Chemistry and Physics for matriculation. The recommendation had been passed in General Faculty Council and had been referred to the Joint Committee to Co-ordinate University and High School Curricula. The Chairman

May 10, 1955.

now reported that the Joint Committee was opposed to the recommendation which, therefore, had been referred back to General Faculty Council for further discussion.

NEW BUSINESS

4. Report of Committee on HonorsRecommended for the Governor General's Gold Medal:-

Collette, John Wilfred

Recommended for First Class Honors:-

Adam, Ian William	English
Blair, Donald George Ralph	Biochemistry
Collette, John Wilfred	Chemistry
Godfrey, Allan Robert	English
Hanlan, James Francis	Chemistry
Hausdorf, Margot	Modern Languages
Schultz, Arvid Arthur	Physics
Wilson, Hubert William	Chemistry

Recommended for Honors:-

Budzinski, Emil Eugene	Physics
Gale, Robert Earle	Geology
Haarstad, Vernon Berger	Chemistry
Hoye, Laurence George	Mathematics
Loggie, Margaret Louise	English
MacMillan, Rosemarie	Mathematics
Martin, David Quentin	Geology
Milton, Albert Edward Dunning	Modern Languages
Nakamura, George Kan	Psychology
Rendle, Barbara Rose	Modern Languages
Stewart, Kenneth Maxwell	History
Towers, Laurel Joanna	English
Waller, Orma Jean	English

It was moved by Dr. Walker, seconded by Dr. Smith, that the report of the Committee on Honors be accepted. The motion was carried.

5. Calendar change - Honors Programs

The Chairman suggested that, in view of numerous requests from students, it might be advisable to add the following general provision under the heading

"Degrees with Honors in the Faculty of Arts and Science":-

"3. German 1b is permitted for credit as an approved option in the third or fourth year".

It was moved by Dr. Greene, seconded by Dr. Grayson-Smith, that this recommendation be approved. Carried.

6. Report of Revisions Committee

Recommended for the Lieutenant Governor's Gold Medals:-

B.A.:-

Millett, Barbara Frances

B.Sc.:-

Gittins, Thelma Edith

Recommended for the degree of Bachelor of Arts:-

Adam, Ian William - 1st class Honors in English	Kerans, Roger Philip
Agrios, John Andrew	Leah, Eileen Barbara
Baker, Robert Leonard Cecil	Lefsrud, Erik Sigurd
Baudoux, Georgette Mary	Livingstone, Doris Alexandra - 1st class standing
Borchert, Donald Marvin - 1st class standing & 1st class general standing	Logan, James Edward
Borchert, Gerald Leo	Loggie, Margaret Louise - Honors in English
Brooks, Barry Livingstone	Long, Isabella Grace
Bradley, Ray Willson	Lyle, Daneve Marilyn
Budnyk, Angela Natalia	McInerney, Michael Francis
Brown, Ethel Christine	McLean, Marilyn Ann
Casson, Hubert Benjamin	McQuillan, Shirley Mae
Chappel, John Nelson	Marshall, John Ralph
Chernoff, Harold Roy	Mason, David Blair
Chrumka, Paul Stefan	Millett, Barbara Frances - 1st class standing
Church, Margaret Bayard	Milton, Albert Edward Dunning - Honors in Modern Languages
Clyne, Robert Carson	Moroney, Martin Dennis
Collier, Carol Frances	Nakamura, George Kan - Honors in Psychology
Coughlan, Paul Bernard	Page, Keith Mackay
D'Aoust, Bernard Rene	Pallesen, Laverne Marie
Edwards, John Garland	Parlee, Mary Julia
Evans, Ralph Gordon	Pecover, Jack Ferris
Glass, Ruth Sylvia	Pecover, Joan
Glyde, Helen Fabia	Penner, Beverly Keith
Godfrey, Allan Robert - 1st class Honors in English	Ponich, Leonard Victor Michael
Greer, Harold Alexander	Quirin, Brendan Edward
Hagerman, Robert Donald	Rendle, Barbara Rose - Honors in Modern Languages
Hamill, Robert	Robertson, Nancy Barbara
Harris, Marjorie Vivian	Rolf, Norman Albert
Hausdorf, Margot - 1st class Honors in Modern Languages	Salter, Elizabeth
Hoff, Vernon Adolph	Salyzyn, Vladimir
Ingram, Donald George	Savaryn, Peter
James, Helen Jane - 1st class standing and 1st class general standing	Schwab, Werner
Jones, Robert James	Seneshen, Lucy Genevieve
Kenworthy, Jean Agnes	

May 10, 1955.

Recommended for degree of Bachelor of Arts (cont'd)

Sherbaniuk, James Alexander
Shewchuk, Peter Nickolas
Sleight, Catherine Beatrice
Small, George Walter
Stewart, Kenneth Maxwell - Honors
in History
Strembitsky, Mike
Telfer, Margaret Jane

Towers, Laurel Joanna - Honors in English
Trotter, Diana Margaret
Waller, Orma Jean - Honors in English
White, Walder George Watson
Wilson, William Ernest
Wirsig, Claus Adolf
Wolfe, Vivian Margaret

Recommended for the degree of Bachelor of Science:-

Anderson, Margaret Phoebe
Archibald, Gary Mervin
Aunger, Albert William
Becker, Virginia Anne
Bell, John Anderson
Berry, Sheila Alice
Bilton, Glenn Ronald
Bodnar, Julie Katherine
Budinski, David Ronald
Budzinski, Emil Eugene - Honors
in Physics
Bulmer, Charles Arthur Stuart
Busheikin, Theodore Mitchell
Collette, John Wilfred - 1st class
Honors in Chemistry
Cowper, Denzil Norman William
Craig, James Henry
Crook, William George
Dishaw, Joyce Evelyn
Disturnal, Richard Clifford
Duke, William Richard
Eng, Ralph Leonard
Fischbuch, Norman Robert
Fitzgerald, Edward Leo
Fontaine, Guy Joseph
Gale, Robert Earle - Honors in
Geology
Genser, Avron
Gittins, Thelma Edith - 1st class
standing & 1st class general standing
Goodridge, Beverley Muriel
Haarstad, Vernon Berger - Honors in
Chemistry
Hanlan, James Francis - 1st class
Honors in Chemistry
Hassard, Donald Thomas Robertson
Hoye, Laurence George - Honors in
Mathematics
Jacox, Gordon Graham

Jordan, Mary Joan
Krebes, Andrew Joseph
Lazaruk, Stella Helen
Little, Stuart Taylor
Loney, Beverley Leonard
MacDougall, David Bruce
MacMillan, Rosemarie - Honors in Mathematics
Maltais, Eugene
Martin, David Quentin - Honors in Geology
Meyers, Nelson August
Mielke, Bruce Walter
Mitenko, Terrence Joseph
Morgan, Shirley Ann
Nakamura, William Takao
Nicas, James Andrew
Oswald, Robert Traugott
Phipps, Grant Thomas
Pilling, Barbara Joan
Pritchard, Raymond Edward
Probst, Raymond Maurice
Rutherford, James Alexander
Saunders, Dora Madeline
Schultz, Arvid Arthur - 1st class Honors in
Physics
Schwartzzenberger, Raymond Donald
Scott, Norma Ethel
Sheppard, Lawrence Donald
Sheremata, William
Sibley, John Oliver
Slavik, Robert James
Solony, Natalia
Southern Ronald Donald
Spratt, John Grant
Syska, Marshall Theodore
Takahashi, Haruo Joseph
Tidsbury, Joseph Neil
Trofimoff, Terence Neil
Wagness, Jean Carolina
Wiedeman, Frank Victor

Recommended for degree of Bachelor of Science (cont'd)

Wilson, Hubert William - 1st class	Worobec, Joseph William
Honors in Chemistry	Wright, Helen Margaret
Wiznura, Zenon Andrew	

Dr. Davis, as Chairman of the Revisions Committee, then presented a number of special cases. He pointed out that Mr. Norman Robert Fischbuch had been recommended for his degree by the Revisions Committee in spite of the fact that he lacked the open option of his third year and that he was not entitled to a four-course final year. He had suffered from a painful spinal tumor, which for a while had been considered malignant, and had carried on with his work under this severe handicap. Dr. Warren stated that he favoured the decision of the Revisions Committee to include Mr. Fischbuch in the list of students recommended for the degree of B.Sc.

Miss Beverly Gwendolyn Fleet had taken two years in Honors Modern Languages, but had not been able to meet Honors standards because of serious eye trouble. She left the University for one year and returned for the 1954-55 session, completing her third year. She now lacked one science for the requirements of a general B.A., but had the required number of seconds and adequate subjects, one of which was taken at Sir George Williams College. It was moved by Dr. Davis, seconded by Professor Salter, that Miss Fleet be recommended for her degree. The motion was carried.

Miss Miriam Lila Alley had been required to transfer to the pass course from the Honors course in Modern Languages. She now lacked two C division options, but had completed the third year in Honors Modern Languages. It was moved by Dr. Davis, seconded by Dr. Rowan, that Miss Alley be recommended for her degree. Carried.

Mr. Lloyd Glen Gillette had one failure in the 1954-55 session, but had a total of fifteen courses and more than the required number of seconds. It was moved by Dr. Davis, seconded by Professor Nichols, that Mr. Gillette be recommended for his degree. Carried.

May 10, 1955.

Mr. Warren John Platzer had completed three years in the Zoology Pattern, but in the spring of 1954 still lacked the open option of his third year for the degree of B.Sc. In the 1954-55 session he was registered in the Faculty of Medicine, and it was ruled that, on the satisfactory completion of his first year in that Faculty, he should be allowed to offer one subject taken during that year as his open option for the B.Sc. degree. After some discussion, it was moved by Dr. Miller, seconded by Dr. Cormack, that Mr. Platzer be allowed to offer Physiology 11, in which he had obtained second class standing, as his open option for the B.Sc. degree. The motion was carried.

Dr. Davis then reported as follows on students who had failed to meet the requirements for the B.A. and B.Sc. degrees:-

<u>B.A.</u>	Allan, Robert Harvie	failed second year in Law
	Cairns, Gordon Barker	lacks one second
	Diakur, Peter	one failure, lacks one second
	Dunn, Terence James	one failure in Law
	Fitch, Douglas Foster	one failure in Law
	Fodchuk, Boris William Frederick	Political Science 63 raised from 62 to 65, lacks two seconds
	Gazdarica, Louis John	one failure in Law
	Hango, Mae Myrtle	lacks one course and two seconds
	Lyndon, Jack Lawrence	two failures, absent for Economics 67, lacks five seconds
	MacDonald, Winifred May	lacks three seconds
	Moore, John Stanley	two failures in Law
	Mosychuk, Nick	Economics 64 raised from 63 to 65, lacks two seconds
	Noble, Harry Johnstone	lacks four seconds
	Simons, Sidney Bernard	lacks three seconds
	Smith, Robert Frederick	Psychology 40 raised from 62 to 65, lacks one second
	Wade, Marion	lacks one course and two seconds

<u>B.Sc.</u> Calvert, Doreen Wenonah	Physiology 61 raised from 64 to 65, lacks one second
Chetner, David Robert	lacks one second
Chrusch, Barney George	lacks one second
Cloutier, Lucien Eugene	lacks two seconds, one failure
Daly, Eryl Patricia	Zoology 56 raised from 62 to 65, Zoology 57 raised from 61 to 65, lacks one second
Erickson, Harvey Grant Peter	one failure
James, Franklin Delance Hamilton	Mathematics 55 raised from 49 to 50, lacks one second
Knopp, William Roy	two failures
Long, Mildred Louise	two failures, lacks two seconds
McKinney, Roy James	one failure
Mosychuk, Harry	one failure
Nelles, Robert Bruce	lacks one course and five seconds
Orr, Marguerite Ann	two failures
Rhoades, Berna Jean	one failure, lacks three seconds
Scott, Merle Ian	two failures
Sribney, John Jacob	one failure
Stansberry, Gerald Francis	one failure
Wood, John Torrance	one failure

There was some discussion on the case of Mr. Franklin Delance Hamilton James, who had six seconds, but only three of them in his senior years. It was moved by Dr. Warren, seconded by Dr. Rowan, that Mr. James be recommended for his degree. Motion carried.

Dr. Smith commented on the failure in Psychology 40 of Mr. Merle Ian Scott, pointing out that Mr. Scott had received a mark of 71 in his final examination, but had neglected to hand in some of his term work, so that his final mark was 48. It was moved by Dr. Smith, seconded by Professor Salter, that this mark be raised to 50. The motion was lost, and the Revisions Committee would, consequently, lower the mark to 45.

May 10, 1955.

Dr. Hocking objected to the raising of the mark in Psychology 40 of Mr. Robert Frederick Smith, whose general record did not seem to justify such action. Dr. Hocking moved, seconded by Miss Patrick, that Mr. Smith should be required to present two further seconds. In the ensuing discussion the Chairman explained the principles governing the work of the Revisions Committee and confirmed that the action of the Committee in this case was in keeping with these principles. One of the factors considered is the student's general average and the number of courses in which he has secured marks well above the required minimum of the grade. For example, a student with three marks of 50 and two of 65 would be credited with second class standing in two courses, though his overall average was only 56%. A student with five marks above 60, but below 63, would have a better average, yet would not be credited with second class standing in any course. Similarly, a student might have four seconds and one first, where six seconds are required. In either of the cases mentioned it would seem reasonable to "borrow" from the "excess" in order to justify raising a mark of 61, 62, or 63 to 65. The motion was then put and lost.

Dr. Davis then moved, seconded by Professor Gainer, that the report of the Revisions Committee as amended be adopted. Motion carried.

6. Report of the School of Household Economics

Miss Patrick moved, seconded by Dr. Collier, that the report of the School of Household Economics be approved as follows:-

Recommended for the degree of B.Sc. in Household Economics:-

Bowser, Arlene Ann
Bramley-Moore, Helen Marion
Carriere, Terese Marie
Colwell, Wilda Margaret
Cony, Jenny Gwendolyn
Corben, Beverly Harriette
De Sorcy, Maureen Agnes
Duggan, Donna Marie
Empey, Marion
Harding, Marilyn Elaine
Howell, Joyce Janet
Jensen, Loretta Jean

Krukowski, Gladys Carolyn
Linke, Rita Helen
Lopushanski, Rose Emily
MacKenzie, Anne Cecilia
Millard, Betty Gowan
Neal, Marion Rosalind
Nelson, Helen Arlene
Pasochnik, Nancy Anita
Schon, Joyce Gertrude
Thompson, Nola Elizabeth
Walker, Diane Rae

Failed to meet requirements for the degree of B.Sc. in H.Ec.:-

none

Recommended for the degree of Bachelor of Household Economics:-

Aplin, Joan

The motion was carried.7. Report of School of Commerce

It was moved by Dr. Hanson, seconded by Professor Gainer, that the report of the School of Commerce be approved as follows:-

Recommended for the degree of Bachelor of Commerce:-

Allen, Douglas Sidney	Hawkins, James Verne - 1st class standing and
Bailie, Kenneth Simpson	1st class general standing
Baker, Eric Mathew	Hilton, David Alan
Bogda, Daniel Victor	Horne, Denis John
Borm, Charles Eric	Ilnicki, Walter John
Broen, Wallace Keith	Johnston, Donald Ross
Collins, Allan Ross	MacDonald Mary Anne
Cowan, David Chaim	Porozni, George John
Cristall, Norman David	Quilliam, Colby Herbert - 1st class standing
Cuthbertson, John Ormond	Scott, Kenneth Walker
Dacyszyn, Stephen	Smith, Deryk Stewart
Donnelly, Lawrence Joseph	Taylor, Donald James
Elder, Madelyn Joyce	Third, James Thomas
Faulafer, Patricia Ann	Webb, William Walter
Fowers, John Eric	White, Allison Claire
Gordon, Kenneth Douglas	Whitworth, John Frederick
	Wordie, William Cameron

Failed to meet requirements for the degree of Bachelor of Commerce:-

Kerr, Donald Selwyn	lacks one second
Summers, James Kingsford	one failure

Special case

Garland, John Edward	failed Acctg. 52 (36%) in 1949, short one course
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The Chairman commented on the case of Mr. Denis John Horne, stating that he had failed his course in Business Administration 56 (45%). In view of his otherwise satisfactory record, the Council of the School of Commerce had decided to recommend him for his degree, with the stipulation that the failure appear in his transcript.

May 10, 1955.

Mr. John Edward Garland, a student veteran, had completed three years in the School of Commerce, leaving the School in 1949. He had tried three times to pass Accounting 52, obtaining a mark of 46% on his first attempt, but had not been able to secure standing in this course. He had now written a letter to the Council of the School of Commerce, asking that he be considered for the degree of B.Com. on the basis of his record as of 1949, in spite of a failure in Accounting 52. The Council of the School of Commerce had ruled that Mr. Garland be allowed to present a substitute course in place of Accounting 52 in fulfillment of the requirements for the degree.

The motion was then put and carried.

8. Authority for revision of examination results for undergraduates and for Summer School students

It was moved by Dr. Moore, seconded by Dr. Scargill (1) that the Revisions Committee be empowered to act for the Arts Faculty Council in the cases of undergraduates not under the jurisdiction of the First Year Committee; (2) that the Dean be authorized to appoint a special Revisions Committee to deal similarly with the examination results of students in the Summer Session; and (3) that the regular Revisions Committee be authorized to deal with the cases of students writing supplemental examinations. Carried.

It was moved by Dr. Moss, seconded by Dr. Gowan, that the Council of the Faculty of Arts and Science express their sincere appreciation of the valuable contributions of Professor P.S. Warren to the work of this Council and that the Chairman be asked to write to Dr. Warren to that effect. The motion was carried. with general applause.

The meeting adjourned at 11:05 a.m.

Appendix "A"

At the recommendation of Professor Glyde, General Faculty Council approved

the Intermediate Diploma in Art for Miss Colleen Dee Anderson and
Miss Joan Elizabeth Byrne.

Walter H. Johns

Dean

October 3, 1955.

Minutes of the 457th meeting of the Council of the Faculty of Arts and Science, held on October 3, 1955, at 4:30 p.m. in Room 142 of the Arts Building.

Present were:- Dean Johns in the Chair; Professors Blackley, Brown, Campbell, Card, Collier, Cook, Cormack, Crosby, Duggan, Folinsbee, Fostvedt, Gainer, Glyde, Goodale, Greene, Hanson, Horton, Jones, Keeping, Kreisel, Lindberg, MacIntyre, Mardiros, May, Miller, Morrison, Myers, Newbound, Patrick, Phibbs, Peacock, Ryan, Salter, Scargill, Scott, Smith, Spearman, Stelck, Stuart, Thomas, Tuba, Walker, Whyte, and the Registrar.

The Chairman welcomed as new members of the Council Professor B.A. Lindberg, Director of the School of Commerce and Professor of Business Administration, and Mr. G.B. Peacock, who would be representing the Drama Division.

1. Minutes of the previous meeting

The Chairman read those parts of the minutes of the previous meeting that dealt with business other than the lists of graduands. It was moved by Dr. Cormack, seconded by Dr. Scott, that the minutes be approved. The motion was carried.

BUSINESS ARISING FROM THE MINUTES

2. B.Sc. Matriculation

The Chairman informed Council that the matter of making Physics and Chemistry compulsory matriculation subjects for B.Sc. candidates was back before General Faculty Council for further consideration, after a motion to that effect had been defeated in the Joint Committee to Co-ordinate University and High School Curricula.

NEW BUSINESS

3. Report of the Summer Session Revisions Committee (Dr. Blackley)

Dr. Blackley moved, seconded by Dr. Kreisel, that the report of the Summer Session Revisions Committee be approved as follows:-

The following Students are recommended for the degree of B.A.:-

Allen, Jack Wadsworth
Armstrong, Robert David
Brown, Mary Elle
Dressler, Vernon Emmett
Kern, George Herman

Kreutz, Norma Bertha
Playfair, Winnifred
Smith, Iva Ethel
Yusep, John

The following students are recommended for the degree of B.Sc. in Arts:-

Brown, Leslie James
Chrusch, Barney George
Hrynyk, Nicholas
Nadeau, Raymond Joseph

Pritchard, Marjorie Kathleen (nee Kent)
Romer, Norma Patricia
Sister Mary Monica (Mantyka)

The following students failed to meet requirements for the degree of B.A.:-

Bailey, Sheila Joan	lacks one second class, supplemental granted
James, Mabel Marion (Mrs.)	lacks one senior second, supplemental granted
Smith, Mary Kirkpatrick	lacks two senior seconds (supplementals granted) and Latin 2
Wade, Marion	lacks one second class, supplemental granted

The following students failed to meet requirements for the degree of B.Sc.:-

Clark, Norman Ancrom	one failure, lacks one second, supplementals granted
Free, Eleanor Ruth	lacks three seconds, supplementals granted

The following student failed to meet requirements for the degree of B.Com.:-

Lopushinsky, Victor	lacks one senior second, supplemental granted
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4. Report of Revisions Committee on cases arising out of supplemental and deferred examinations (Professor Gainer)

It was moved by Professor Gainer, seconded by Dr. Blackley, that the report of the regular Revisions Committee on cases arising out of supplemental and deferred examinations be approved as follows:-

The following students are recommended for the degree of B.A.:-

Dunn, Terence James
Fitch, Douglas Foster
Haskins, Bruce Farmer
Kroeger, Arthur (with First Class Honors in English)
MacDonald, Winifred May - Classics 54 raised from 62 to 65
Moore, John Stanley
Wade, Marion

October 3, 1955.

The following students are recommended for the degree of B.Sc. in Arts:-

Daly, Eryl Patricia	Orr, Marguerite Ann - Math. 62 raised from 46 to 50
Erickson, Harvey Grant Peter	Spohn, Norbert Henry
Kirk, Donald Elmer	Stansberry, Gerald Francis
McKinney, Roy James	

The following students failed to meet the requirements for the degree of B.A.:-

Bailey, Sheila Joan	Lacks one second
Cairns, Gordon Barker	lacks one second
Diakur, Peter	lacks one second
Fodchuk, Boris William Frederick	lacks one second
Gazdarica, Louis John	writing October supplemental to clear failure in Law
Hango, Mae Myrtle	lacks two seconds
Mosychuk, Nick	lacks one second
Noble, Harry Johnstone	lacks three senior seconds
Sherling, Errol Douglas	lacks matriculation credit in Mathematics and in Physics or Chemistry
Simons, Sidney Bernard	lacks two seconds
Sissons, Frances Marie	lacks two seconds
Smith, Mary Kirkpatrick	lacks two seconds
Smith, Robert Frederick	lacks one second

The following students failed to meet requirements for the degree of B.Sc.:-

Clark, Norman Ancrom	lacks one second, writing October supplemental in Geology 55
Chetner, David Robert	lacks one second
Cloutier, Lucien Eugene	lacks two seconds and one course
Free, Eleanor Ruth	lacks two seconds
Knopp, William Roy	lacks one course
Long, Mildred Louise	writing October supplemental in Psychology 40
Mosychuk, Harry	lacks one course
Nelles, Robert Bruce	lacks five seconds and one course
Niziol, Stephen Joseph	lacks one senior second
Rhoades, Berna Jean	lacks two seconds, Phil. 51 raised from 63 to 65
Scott, Merle Ian	writing October supplementals in Psychology 40 and Biochemistry 50
Wood, John Torrance	writing October supplemental in Philosophy 51

The motion was carried.

5. Special Case - Miss Doreen Wenonah Calvert

The Chairman then presented the case of Miss Calvert, a B.Sc. student, who lacked one second for her degree, but had - due to a misunderstanding on her part - written a supplemental in a half-course only (Biochemistry 54) in order to obtain the required second class standing. Originally she had applied for permission to

write a supplemental examination in Bacteriology 61, but she was working at a Calgary hospital during the summer and felt she could not prepare herself adequately for the examination in this course. She wrote the supplemental in Biochemistry 54 instead, apparently acting in good faith that by obtaining second class standing in it she would qualify for her degree. It was moved by Professor Salter, seconded by Dr. Brown, that Miss Calvert be granted the degree of B.Sc. Dr. Collier explained that Miss Calvert was one of the poorer students in his Department and felt that she should be asked to re-write Biochemistry 52 as well. The motion was then put and carried.

6. Report of the School of Commerce

The Chairman presented the report on graduands in the School of Commerce as follows:-

The following student is recommended for the degree of B.Com:-

Summers, James Kingsford passed supplemental in Accounting 53

The following students failed to meet requirements for the degree of B.Com.:-

Kerr, Donald Selwyn
Lopushinsky, Victor

lacks one second
Council of School of Commerce ruled Mr. L. lacks one senior second, confirming action of Revisions Committee.

It was moved by Professor Campbell, seconded by Dr. Hanson, that the report be approved. The motion was carried.

7. Motion regarding cases arising out of special supplemental examinations

It was moved by Dr. Folinsbee, seconded by Dr. Whyte, that the Revisions Committee be empowered to refer cases, where students become eligible for graduation on the basis of supplemental examinations written in October, directly to General Faculty Council. Motion carried.

8. Replacement of Accounting 1 in first year of B.A.L.L.B. program by C Division course

The Chairman informed Council that the Faculty of Law had found it desirable to remove Accounting 1 from the prescription for the first year of

October 3, 1955.

the combined course leading to the degrees of B.A.LL.B. and to insert in the third year of Law a full course of Legal Accounting. In order to bring this change into effect this Fall, the suggestion had already been submitted to General Faculty Council and had been approved by that body, subject to confirmation by the Council of the Faculty of Arts and Science. It was moved by Professor Campbell, seconded by Professor Keeping, that this Council confirm the action taken by General Faculty Council. Motion carried.

9. New Courses - Mathematics 106 and Mathematics 111

It was moved by Professor Keeping, seconded by Dr. Walker, that the Following two Honors courses be offered in the present academic session:-

Mathematics 106: Theory of Estimation and Statistical Hypotheses, 3 hrs. This would be for graduate and fourth-year Honors students and would be taught by Dr. Guttman.

Mathematics 111: Theory of Games and Statistical Decisions, 3 hrs. This would be, this year, a reading course supervised by Professor Keeping, for a single graduate student. These courses are not listed in the calendar, since they could not be scheduled until it was definitely known who would be available on the staff and who would be entering on the M.Sc. program in Mathematics. The motion was carried.

10. Program for Special B.Sc. Pattern

It was moved by Dr. Stuart, seconded by Dr. Collier, that, due to shortage of space and facilities, Physiology 60 be offered this year instead of Physiology 61 in the second year of the Special B.Sc. course. Motion carried.

11. Special Case - Miss Laura Mae Stillings

The Chairman submitted to Council a request by Miss Stillings, a third-year student in the B.A. Program, English Pattern, that she be allowed to complete her third (and final) year in Calgary and to adjust her registration accordingly.

She was suffering from an asthmatic condition, caused by an allergy, and was hoping for recovery if she could live at home in Calgary. Council agreed that, under the circumstances, Miss Stillings should be allowed to complete her degree at the Calgary Branch, if a suitable program could be worked out for her. Miss Stillings had asked permission to take English 54 (Children's Literature) as her second senior English course, but members of the English Department were opposed. After some discussion, it was moved by Professor Salter, seconded by Professor Cormack, that the selection of a suitable course instead of the second English course be left to the discretion of the Dean, and that on the satisfactory completion of her program in Calgary Miss Stillings be granted her degree. The motion was carried.

12. Two-hour tests

Professor Keeping informed Council that the results of the Christmas tests in Mathematics 1 and 2, as well as in certain Physics courses and other subjects, had been so poor that a special committee had been appointed to inquire into the reasons. One of the recommendations of this committee had been to substitute two-hour tests for the customary one-hour tests, and the Committee on Examinations had endorsed this. General Faculty Council, however, had turned the recommendation down, because an additional day would have been required for which the gymnasium could not be made available. Professor Keeping stated that the Departments of Mathematics and Physics still want the two-hour tests and moved, seconded by Dr. Crosby, that the Council of the Faculty of Arts and Science approve in principle the attempt by the Departments of Mathematics and Physics to arrange two-hour consolidated tests for those Departments who desire them, without infringement on the time and space of the gymnasium. The motion was carried, and the Chairman stated that the matter would be taken back to General Faculty Council, if it appeared that satisfactory times and space for these examinations could be found.

October 3, 1955.

13. Philosophical Society

The Chairman read out a letter received from the President of the Philosophical Society, asking that members of the Council make announcements to key classes regarding the activities of the Society.

14. Division of Duties in the Office of the Dean, Faculty of Arts and Science

The Chairman then announced that, during his own term as Vice-President, Dr. D.E. Smith would be presiding at meetings of the Council of the Faculty of Arts and Science. Dr. Smith would also take over Dr. Johns' duties with respect to the Honors Committee and certain other committees, but Dr. Johns would still attend to matters of budget in the Faculty of Arts and Science.

The meeting adjourned at 5:45 p.m.

Douglas E. Smith
for Dean

November 7, 1955.

Minutes of the 458th meeting of the Council of the Faculty of Arts and Science, held on November 7, 1955, at 4:30 p.m., in the Senate Chamber.

Present were:- Professor D.E. Smith in the chair; Professors Blackley, Brown, Card, Collier, Collins, Cook, Cormack, Crosby, Duggan, Folinsbee, Gainer, Greene, Hanson, Harris, Harrold, Hocking, Horton, Keeping, Kreisel, McIntyre, Mardiros, May, Miller, Moore, Morrison, Moss, Newbound, Patrick, Salter, Scott, Spearman, Stelck, Thomas, Walker, Wonders, Wyman, and the Registrar.

1. Minutes of the previous meeting

It was moved by Dr. Collier, seconded by Dr. Wonders, that the minutes be approved as circulated. The motion was carried.

BUSINESS ARISING FROM THE MINUTES

2. B.Sc. Matriculation

The Chairman informed Council that General Faculty Council had been notified that the resolution to require Physics and Chemistry as matriculation subjects for B.Sc. candidates had been opposed in the Joint Committee to Co-ordinate University and High School Curricula, and that General Faculty Council did not re-open the matter. No motion to re-open discussion in this Council was presented.

3. Additional Graduating Students

Professor Gainer presented to Council the following report on students, who had become eligible for graduation after the October meeting of the Council of the Faculty of Arts and Science and had been referred to General Faculty Council directly:-

Bachelor of Arts

Gazdarica, Louis John

Bachelor of Science

Long, Mildred Louise
Roberts, John David
Wood, John Torrance

November 7, 1955.

The Chairman then explained the case of Mrs. Mabel Marion James, whose name had come before the Council of the Faculty of Arts and Science at their October meeting, when the Summer Session Revisions Committee had reported her as lacking one senior second for the degree of B.A. In the meantime, Mrs. James had applied for a re-read of her paper in History 65, the course she had taken in the summer session of 1955. Although her mark of 61 in History 65 had been confirmed on re-reading, and the Revisions Committee were not prepared to raise it to second class, they felt that Mrs. James' case should be referred to General Faculty Council for consideration. General Faculty Council had seen fit to award Mrs. James the degree of B.A. without raising any mark, on the basis of her record to date in this Faculty.

The above students had all been awarded their degrees at the Fall Convocation.

4. Two-hour tests

In the October meeting of the Council of the Faculty of Arts and Science a motion had been passed, approving in principle the attempt by the Departments of Mathematics and Physics to arrange two-hour consolidated tests for those Departments who desire them, without infringement on the time and space of the gymnasium. The Chairman now reported that General Faculty Council had approved this request.

NEW BUSINESS

5. Appointment of members to Committee on Patterns

The Chairman informed Council that Professors J.T. Jones, R.B. Miller, and W.C. Wonders had completed their term on the Patterns Committee this month and that the following had been approached to replace them:-

Professor A.T. Elder	for Division A,
Professor L.G. Thomas	for Division B,
Professor J.E. Moore	for Division C.

The above have agreed to act on the Committee for the next four years. The Chairman thanked the outgoing members for their contribution to the work of the Committee.

6. New Courses(a) Department of Modern Languages

It was moved by Dr. Greene, seconded by Dr. Wonders, that the following course be approved:-

French 53Su. French Language and Civilization. 10 hours.
(to be offered in summer sessions only)

Pronunciation: sounds of the French language; the International Phonetic Alphabet; drill in basic speech patterns.

Grammar: a general review with emphasis on those constructions in which French usage differs from English; translation from French to English and from English to French.

Civilization: aspects of contemporary French life and letters; specimens of post-war prose and verse.

Prerequisite: French 2.

Note:- This course, designed for teachers and prospective teachers, will not overlap, or serve as a substitute for, Education 280S (French Section).

Dr. Greene explained that the course was intended to help teachers of French in this Province improve their qualifications with regard to the language aspect of French. The motion was carried.

(b) Department of History

It was moved by Dr. Collins, seconded by Dr. Thomas, that the following courses be approved:-

History 8. Canada and the United States, 1492-1939. (3-1s; 3-1s)
Members of the Department

A history of Canada and the United States, including a study of their European origins and relationships.

History 72. Sea Power and Diplomacy, 1470-1945. (3-0; 3-0)
D.M. Schurman

A study in the influence of sea power on diplomacy. Special attention will be given to the development of the Royal Navy and to Britain's relations with Europe.

and that the course description of History 66 be changed to read as follows:-

History 66. Contemporary Europe, 1900-1945. (3-0; 3-0)
D.M. Schurman

The internal history of the major European countries to the end of the Second World War.

The motion was carried.

November 7, 1955.

7. New Honors Program - Department of Zoology

It was moved by Dr. Moore, seconded by Dr. Moss, that an Honors Program in Zoology be approved as follows:-

<u>First Year</u>	Zoology 1 Botany 1 Chemistry 40 Physics 1 or 41 English 2 or 5S Physical Education
<u>Second Year</u>	Zoology 51 Chemistry 42 Genetics 51 Geology 1 Special A or B (French 2 recommended)
<u>Third Year</u>	2 senior Zoology courses (Zoo. 52 or 53, Zoo. 56 and 57) Biochemistry 50 Entomology 41 Option (German 1b recommended)
<u>Fourth Year</u>	2 senior Zoology courses (Zoo. 52 or 53, one of 54, 55, 58, 104) 2 Division C options (Physiology 61, sr. Botany, Geology 53, Biometrics 53) Special A or B comprehensive examination

Dr. Moore explained that it seemed desirable to institute an Honors Program in Zoology, because the course in Conservation Biology did not meet the needs of all students. Professor Keeping pointed out that the course in Biometrics 53 had a prerequisite, which these students would not have. After some discussion, Dr. Moore amended his motion by substituting "a course in Statistics" for "Biometrics 53". The motion was then put and carried.

8. Course Changes - Department of Political Economy

Dr. Hanson explained that, for a number of reasons, it seemed advisable to discontinue the course in Economics 2. The Department had experienced difficulties in securing continuity of instruction for this course because of the pressure upon the large courses, such as Economics 1 and Economics 51. The same textbook is used in both Economics 1 and Economics 2; and with the

much heavier enrolment in Economics 1, the Department had been obliged to shift students from that course to Economics 2, which has practically become a replica of Economics 1. Dr. Hanson then moved, seconded by Professor Gainer, that the course in Economics 2, Outline of Economics, be discontinued and replaced by Economics 1, Principles of Economics. The combined enrolment in Economics 1 and 2 would then be divided into two roughly equal lecture sections. Both lecture sections would be divided into discussion groups, which is now done only in Economics 1. There would be no time-table changes and no change in staff. The motion was carried.

Department of Zoology

It was moved by Dr. Moore, seconded by Dr. Miller, that "Zoology 58" be renumbered "Zoology 105" and thus made available only to Honors and Graduate students. The motion was carried.

9. Pattern Changes

Dr. Greene suggested, on behalf of the Department of Modern Languages, that, in Pattern prescriptions, the notation "French 2 or Latin 2 or German 2" be changed to read either "A foreign language" or "French 2 or Latin 2 or German 1 or 2 or Russian 1", where the intention was originally to make any foreign language open to the student. He moved, seconded by Dr. Brown, that this suggestion be referred to the various Departments for consideration and recommendation to this Council. The motion was carried.

Department of Philosophy and Psychology

It was moved by Professor Mardiros, seconded by Dr. Spearman, that, in order to give students in the Philosophy Pattern a less restricted choice, the following change be approved in the First Year of that Pattern:-

delete:- "French 2 or Latin 2 or a junior Fine Arts course";
substitute:- "An option from Division A or B".

The motion was carried.

November 7, 1955.

10. Honors Course Changes

(a) Department of Zoology

It was moved by Dr. Moore, seconded by Dr. Moss, that the following changes be approved:-

In the second year of the Honors Course in Conservation Biology, the term "a course in Statistics" should replace "Mathematics 45".

Soils 41 should be dropped from the fourth year of the Honors course in Conservation Biology, since it is given simultaneously with Soils 56, which is required in the same year.

This leaves the Fourth Year with four and a half classes, but the Departments of Botany and Zoology feel that the two seminar courses (Botany 103 and Zoology 104) will make up for this deficiency. The motion was carried. Dr. Collier suggested that a cross reference appear under "Department of Zoology" in the section "Degrees with Honors in the Faculty of Arts and Science" of the Calendar.

(b) Department of Philosophy and Psychology

It was moved by Professor Mardiros, seconded by Dr. Spearman, that the description of the Honors program in Philosophy be amended

to change:- "Six courses in a minor subject, or an integrated selection of six courses ..."

to read:- "Five or six courses in a minor subject, or an integrated selection of five or six courses",

and

to change:- "Four optional courses outside the field ..."

to read:- "Four or five optional courses ..."

The motion was carried.

11. Nuffield Foundation - Travelling Fellowships

The Chairman announced that announcements regarding Nuffield Foundation Travelling Fellowships and Travel Grants for 1956 had been received and would be available in the Dean's Office.

12. Calendar Changes

The Chairman asked that any further calendar changes, which Departments might wish to make, be brought up as soon as possible.

The meeting adjourned at 5:30 p.m.

Douglas E. Smith
for Dean

December 5, 1955.

Minutes of the 459th meeting of the Council of the Faculty of Arts and Science, held on December 5, 1955, at 4:30 p.m., in the Senate Chamber.

Present were:- Professor D.E. Smith in the chair; Professors Card, Collier, Cormack, Crosby, Duggan, Folinsbee, Fostvedt, Gainer, Grayson-Smith, Greene, Hanson, Harris, Harrold, Hocking, Horton, Keeping, Kreisel, Lindberg, Mardiros, May, Miller, Moore, Morrison, Moss, Newbound, Nichols, Patrick, Peacock, Salter, Scott, Spearman, Stelck, Thomas, Walker, and Whyte.

1. Minutes of the previous meeting

It was moved by Dr. Moore, seconded by Dr. Grayson-Smith, that the minutes of the meeting of November 7, 1955, be approved as circulated. The motion was carried.

NEW BUSINESS

2. Appointments to Honors Committee

The Chairman explained to Council that it seemed desirable to have on the Honors Committee representatives of each Department in which Honors students are registered. He invited a motion to approve the following appointments to the Honors Committee:-

Professor C.R. Stelck, who would replace Professor P.S. Warren, and the following representatives of Departments, which had not been represented on the Honors Committee previously:-

Professor R.B. Miller, for the Department of Zoology,

Professor H.B. Collier, for the Department of Biochemistry,

Professor L.G. Thomas, for the Department of History.

It was moved by Dr. Walker, seconded by Dr. Moss, that the above-named, who had already indicated their willingness to act, be added to the members of the Committee on Honors. The motion was carried.

3. Calendar Changes

It was moved by Dr. Walker, seconded by Dr. Morrison, that the following new half courses be approved:-

Chemistry 113. The Phase Rule and Heterogeneous Equilibria (3-0;0-0) or (0-0;3-0)

The fundamental relations between solid, liquid, and gas phases of single and multicomponent systems as revealed by Gibbs phase rule. Applications will include the iron-carbon systems of steel manufacture, and the lime-silica-alumina system of interest in Portland cement manufacture and geological formations.

Prerequisite:- Chemistry 54.

The course would be given by Dr. J.L. Morrison at such times as it would be called for. It would be mostly for graduate credit, but might be taken on occasion by students in the Honors Chemistry course. Dr. Folinsbee suggested that the words "geological formations" in the course description be replaced by the words "to geologists". With this change, the motion was carried.

(b) Department of Political Economy

Dr. Hanson moved, seconded by Professor Gainer, that the following new courses and new course descriptions be approved:-

Economics

Economics 69. Business Finance and Financial Institutions (3-0;3-0)

The promotion and financing of various forms of business enterprises; financial markets; the instruments of finance; investment media and corporate securities analysis; the changing structure of the business sector and its relationship to the rest of the economy.

Prerequisite:- 1, 7, or 51.

Economics 62. National Income Analysis (3-0;3-0)

National Income concepts and accounting; stability characteristics of the national income and related concepts over time; business cycle theories and investigations.

Prerequisite:- 1, 7, or 51.

Economics 63. Comparative Economic Systems (3-0;3-0)

An analysis of the ways in which societies organize their economic life with special emphasis on capitalism, socialism, and communism.

Prerequisite:- 1, 7, or 51.

Economics 105. A General Reading and Seminar Course (3-0;3-0)

Members of the Department

Required of all Honors students. Topics for reading will be arranged with the Department and discussed at Class Seminars.

Graduate Courses

Delete the paragraph in the Calendar dealing with 120-131.

Substitute the following:-

December 5, 1955.

Economics 120.	<u>Advanced Economic Theory</u> Members of the Department	(3-0;3-0)
Economics 121.	<u>Economic Development</u>	(3-0;3-0)
Economics 122.	<u>Business Cycle Analysis</u>	(3-0;3-0)
Economics 123.	<u>Comparative Economic Systems</u>	(3-0;3-0)
Economics 124.	<u>International Economics</u>	(3-0;3-0)
Economics 125.	<u>Labour Problems</u>	(3-0;3-0)
Economics 126.	<u>Monetary Theory and Policy</u>	(3-0;3-0)
Economics 127.	<u>Public Finance and Fiscal Policy</u>	(3-0;3-0)
Economics 128.	<u>Agricultural Economics</u>	(3-0;3-0)
Economics 129.	<u>Business and Government</u>	(3-0;3-0)
Economics 130.	<u>Transportation and Public Utilities</u>	(3-0;3-0)
Economics 131.	<u>Economic Geography</u>	(3-0;3-0)
Economics 132.	<u>Agricultural Marketing</u>	(3-0;3-0)

Political Science

Pol. Sc. 59.	<u>Public Administration</u>	(3-0;3-0)
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A comparative study, with special reference to Canada, the United States, and Great Britain, of the following: the growth of the administration; the civil service and its problems; the theory of administration; the organization and control of the government bureaucracy.

Honors and Graduate Courses

Pol. Sc. 100.	<u>Advanced Political Thought</u>	(3-0;3-0)
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A detailed analysis of certain major political theories.
Prerequisite:- Pol. Sc. 63 or the consent of the instructor.

This course is now Political Science 111, and permission is sought to change the number to 100. There is no change in course content.

Pol. Sc. 101.	<u>Reading and Seminar Course</u>	(3-0;3-0)
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Required of all Honors students. Topics for reading will be arranged with the Department and discussed at class seminars.

Permission is sought to change the number from 112 to 101.

Graduate Courses

Pol. Sc. 120.	<u>Political Institutions</u>	(3-0;3-0)
Pol. Sc. 121.	<u>Political Theory</u>	(3-0;3-0)
Pol. Sc. 122.	<u>International Politics</u>	(3-0;3-0)
Pol. Sc. 123.	<u>Public Administration</u>	(3-0;3-0)

Dr. Hanson explained that the present Economics 69 was being expanded and split. The same number would be retained for a portion of the content, and a completely new course, Economics 62, would cover the remainder. The graduate courses are listed in detail and reorganized. After some discussion of the numbering system used, the motion was carried.

(c) Department of Physics

It was moved by Dr. Grayson-Smith, seconded by Dr. Scott, that the course in Physics 48, Elementary Meteorology, be deleted, since there has been too little demand for it during the last few years. Carried.

Dr. Grayson-Smith then presented two further changes necessitated by the change in Matriculation Mathematics, which will begin to affect the Third Year in 1956-57; he moved, seconded by Dr. Scott, that they be approved as follows:-

Physics Pattern, Third Year

Physics 42
 Mathematics 55
 one of Physics 50, 56, 58, 60, Chemistry 54
 special A or B course
 an option.

Physics Honors, Third and Fourth Years

A total of ten lecture courses, which must include the following:- Physics 53, 54, 56, 101, 102, Mathematics 55, 56, an option from Division A or B. The additional options are usually selected from Physics, Mathematics, Chemistry, Geology, Engineering, but other subjects may be permitted under special circumstances.

In addition, students must take the laboratory course, Physics 55, and are expected to take part in the weekly physics colloquium. German 1b is strongly recommended.

December 5, 1955.

Students will write the regular examinations in each course taken. In addition, there will be, at the end of the final year, written comprehensive examinations.

The motion was carried.

(d) Department of Mathematics

It was moved by Professor Keeping, seconded by Dr. Crosby, that the following course description be approved:-

Mathematics 1. Elementary Mathematics (5-0;5-0)

Review of plane trigonometry and analytical geometry. Trigonometrical identities and equations. Binomial Theorem. Approximation. Rates of change. Differentiation of simple functions. Curve sketching. Integration of simple functions. Maxima and minima. Conic sections. Polar coordinates.

Textbooks:- Holmes, Trigonometry (McGraw Hill)

Thomas, Calculus and Analytic Geometry (Addison-Wesley)
Chapters 1-4, 6 and 7.

Prerequisite:- Mathematics 30 and 31 of High School.

After discussion of the requirement of Mathematics 31 as a prerequisite, when it is not required in matriculation for the B.A. and the biological science patterns, the motion was changed by adding the words "or consent of the Department" under "Prerequisite". The motion was carried.

It was then moved by Professor Keeping, seconded by Dr. Crosby, that a new course description for Mathematics 55 and a new course, Mathematics 112, be approved as follows:-

Mathematics 55. Advanced Calculus (3-0;3-0)

Determinants and linear equations. Space geometry and vectors. Partial differentiation. Multiple integrals. Differential equations. Laplace transforms. Series solutions. Gamma and Bessel functions. Fourier Series. Line and surface integrals. Complex numbers and contour integration.

Prerequisite:- Mathematics 40.

Textbooks:- Phillips, Analytic Geometry and Calculus (Wiley)

Hildebrand, Advanced Calculus for Engineers (Prentice Hall)

Mathematics 112. Analysis

(3-0;3-0)

Linear transformations. Orthogonal functions. Integral equations. Eigenvalue problems. Special functions (Bessel, Legendre, Tchebycheff, etc.). Asymptotic Expansions.

Reference:- Courant and Hilbert, Methods of Mathematical Physics, I, (Interscience Publishers).

Prerequisite:- Mathematics 55 or 52.

(This course will replace Mathematics 57, which is to be dropped.)

The motion was carried.

Professor Keeping moved, seconded by Dr. Crosby, that the following course, offered in the Faculty of Agriculture, be made available to students in the biological Patterns in the Faculty of Arts and Science, especially since it is a prerequisite for Biometrics 53:-

Mathematics 3. Introduction to Biometrics

(3-2;3-2)

A. Functions and coordinates. Linear and quadratic equations in one and two unknowns. Second degree curves. Exponential and logarithmic curves. Use of logarithms. Mathematical induction and the binomial theorem. Progressions. Permutations and combinations. Elementary probability. Notions of derivative and integral.

B. Computational methods. Frequency tables. Histograms and frequency polygons. Averages (mean and median). Dispersion (range and standard deviation). Relation of sample to population. Binomial and Poisson distributions. Chi-square criterion for goodness of fit. Contingency tables.

The normal distribution. Estimation of sample mean and variance. Confidence limits. The t-test and F-test. Linear regression and correlation.

Prerequisite:- Mathematics 30 of High School.

Textbooks:- Smith, Selby, and Kleiman, Understanding College Algebra (Dryden Press),
Kenney and Keeping, Mathematics of Statistics, Part One. (Van Nostrand).

Selected portions of both texts will be studied.

The motion was carried.

4. Regulations regarding Junior and Senior Courses

The Chairman introduced this problem, which had been in abeyance for some time. The distinction between junior and senior courses was very definitely made

December 5, 1955.

in older calendars. When junior matriculation allowed entrance into university, the first two years were considered junior and the third and fourth years senior. The calendar for 1936-37 states that the junior courses were regarded as preparatory to senior courses and that promotion from junior to senior status was contingent on satisfactory completion of all necessary junior studies. Beginning in 1937, senior matriculation became the standard of admission, a three-year program was adopted, and junior courses were offered only in the first year. In 1945-46, before the Pattern System was adopted, the promotion rule at the end of the junior year was still in effect. Except where permission to take a junior course in the second year was explicitly granted, only senior courses were permitted in the second and third years.

In the early days of the Pattern system, the Patterns were established with the older traditions regarding junior and senior courses in mind. Over the years, options permitting, more junior courses in the senior years of the Patterns have been approved by Council. It seems wise to examine this trend and to consider whether the old distinction between junior and senior courses is still valid and to what extent it should be followed in the Patterns.

The general rule was also modified in that courses numbered in the forties were often accepted either for junior or for senior credit. The original significance of courses so numbered had been that they were for students who entered with senior matriculation in the subject concerned, but they have been used for other purposes over the years. A course introducing a student to a subject may now be numbered 1, 40, or 50. It seems desirable to clarify this numbering system, while the related problem is being considered.

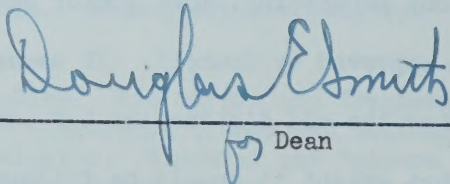
It was moved by Dr. Grayson-Smith, seconded by Dr. Folinsbee, that both these questions be referred to a small committee, perhaps including a representative from the Registrar's Office, who would report and make recommendations to this Council.

Professor Greene wondered how many students graduate with seven to nine junior courses in their programs. Professor Miller felt that the use of junior courses in meeting second class standing requirements was also relevant. Professor Card suggested that it might be worthwhile to find out how some of the larger universities handle these problems. The Chairman agreed that these points could be included in the terms of reference for the committee in question. The motion was carried.

5. British Universities Summer Schools 1956.

The Chairman informed Council that a Summer School announcement had been received from the Joint Committee for Summer Schools of the Universities of Birmingham, London, Oxford, and Scotland, and that information concerning it would be available in the Dean's Office, to anyone interested.

The meeting adjourned at 5:50 p.m.


for Dean

February 6, 1956.

Minutes of the 460th meeting of the Council of the Faculty of Arts and Science, held on February 6, 1956, at 4:30 p.m. in the Senate Chamber.

Present were:- Professor D.E. Smith in the chair; Professors Blackley, Card, Collier, Cook, Crosby, Goodale, Grayson-Smith, Greene, Hanson, Harris, Harrold, Hocking, Horton, Jones, Keeping, Kreisel, Lindberg, Mardiros, May, Miller, Moore, Morrison, Moss, Newbound, Patrick, Phibbs, Peacock, Salter, Scott, Spearman, Stelck, Thomas, Walker, Whyte, Wonders, Wyman, the Registrar and the Assistant to the Registrar.

1. Minutes of the previous meeting

It was moved by Dr. May, seconded by Professor Keeping, that the minutes of the meeting on December 5, 1955, be approved as circulated. The motion was carried.

BUSINESS ARISING FROM THE MINUTES

2. Membership of Committee on Junior and Senior Courses

The Chairman announced that, in accordance with a motion passed in the December, 1955, meeting of this Council, a committee had been formed to examine the regulations regarding junior and senior courses, and had already begun its work. Members of the committee are Dr. E.H. Moss (Chairman), Dr. E.J.H. Greene, Dr. H. Kreisel, Dr. J.L. Morrison, Dr. K.B. Newbound, Dr. L.G. Thomas, Dr. W.C. Wonders.

NEW BUSINESS

3. Calendar Changes

(a) School of Commerce

It was moved by Professor Lindberg, seconded by Professor Goodale, that a new course in Business Administration be approved as follows :-

Business Administration 54. Plant Administration (3-2;3-2)

A course dealing with operating methods and procedures as well as techniques of supervision and direction of activities. The course is designed to:- (a) acquaint the student with and develop skill in the use of procedures and techniques associated with rationalized

organized activities; (b) develop the ability to deal confidently with technical terminologies and concepts; (c) strengthen powers of observation and evaluation; (d) furnish a realistic approach for analysing some business and industrial problems; (e) give practice in reaching decisions on problems involved in plant administration.

This course essentially deals with plant operating problems: i.e. how best to attain the purposes for which the plant was established. Through study of descriptions of actual plant situations and problems the student is expected to learn to develop effective programmes of constructive action for dealing with such plant problems.

After some discussion, it was agreed to omit the first paragraph of the course description. The motion was changed accordingly and carried.

(b) Department of Chemistry

It was moved by Dr. Walker, seconded by Dr. Harris, that a new half-course be approved as follows:-

Chemistry 59. Instrumental Analysis (1-6;0-0)

Lectures: Introduction to some theory and practice of instrumental methods of analysis.

Laboratory: Experimental work involving colorimetric, spectro-photometric, electrometric and radiometric methods of analysis.

Textbook: Ewings, Instrumental Methods of Chemical Analysis.

Prerequisite: Chemistry 56 or 58.

The motion was carried.

(c) School of Household Economics

It was moved by Miss Patrick, seconded by Dr. Collier, that the course leading to the degree of Bachelor of Household Economics be dropped. This course had been available to students coming from Agricultural Schools and lacking complete matriculation, but in recent years not more than two students a year had come under this category. The Superintendent of Schools of Agriculture has been consulted and has no objection to this step. The motion was carried.

(d) Department of Mathematics

It was moved by Professor Keeping, seconded by Dr. Wyman, that a new graduate course be approved as follows:-

February 6, 1956.

Mathematics 113. Mathematical Logic

Sentential Calculus; lower Predicate Calculus; Boolean Algebra; Structures; Goedel's Completeness Theorem.

Carried.

(e) Department of Philosophy and Psychology

It was moved by Professor Mardiros, seconded by Dr. Spearman, that the following calendar changes be made:-

The course in Philosophy 1 is to be abolished. It does not lead to any senior study, and senior courses are given without prerequisite; selection of content for that level, without overlap with other courses, has imposed problems. The Department feels that a historical introduction to the subject would be the most satisfactory, and therefore recommends that Philosophy 51 be renumbered to read Philosophy 40, without any change in content. In reply to a question by Dr. Grayson-Smith, Dr. Smith explained that Philosophy 40 would be available as an option to senior B.Sc. students in the same way as Philosophy 51 had been.

The motion was carried.

(f) St. Joseph's College

It was then moved by Professor Mardiros, seconded by Dr. Spearman, that the following changes be approved regarding courses offered by St. Joseph's College:-

Delete Philosophy 4; substitute Philosophy 44 as follows:-

Philosophy 44. The Philosophy of Aquinas (3-0;3-0)

A critical survey of the chief philosophical theories of Aquinas; theory of knowledge, the nature of reality, the existence and nature of God, the nature of man, and theory of education. Contemporary Thomism.

(This course is offered in St. Joseph's College for Catholic students and is accepted as a junior or senior credit. It is also available to Catholic students in Education as a prerequisite to Education 492.)

Professor Mardiros explained that these changes had been discussed with Brother Anselm, the instructor, and were, in fact, parallel to the ones being made in the Department of Philosophy and Psychology. The motion was carried.

It was moved by Professor Mardiros, seconded by Dr. Spearman, that the title and description of Philosophy 56 be changed to read as follows:-

Philosophy 56. The Moral Philosophy of Aquinas

Ethical theories and problems as discussed by Aquinas, and their application to contemporary ethical and social situations.

(This course is offered in St. Joseph's College and is accepted as a senior credit for Catholic students. It is also available to Catholic students in Education as a prerequisite to Education 492.)

The motion was carried.

4. Mathematics 1 prerequisites

The Chairman welcomed Dean H.T. Coutts and Dr. H.S. Baker of the Faculty of Education, whom he had invited to take part in the discussion on Mathematics 1 prerequisites. In the December 1955 meeting of this Council, a course description of Mathematics 1 had been approved, after considerable discussion, stating prerequisites as follows:- "Mathematics 30 and 31 of High School, or consent of the Department". This description had been passed in General Faculty Council, also after much discussion, but later both Dean Coutts and Dr. Baker, in his capacity of Chairman of the Division of Secondary Education, had expressed concern at the implications this statement of prerequisites would hold for students in their Faculty. The Chairman read a passage from a letter received from Professor Keeping, indicating the policy of the Department of Mathematics, as follows:-

It is recognized, however, that next October there will be a certain number of students who will not have had Mathematics 31, but who will definitely want to take Mathematics 1 and perhaps later Mathematics 40. If their Grade XII records are good, say 75 or better in Mathematics 30, with a good overall average, they might be permitted to enter Mathematics 1. Having a liking and an aptitude for the subject, they could be expected to follow the review of trigonometry and geometry, which will be given at the beginning of Mathematics 1, without undue difficulty.

February 6, 1956.

Dean Coutts feared that many Education students wishing to major in Mathematics, but coming from small high schools where Mathematics 31 was not taught, would be barred from Mathematics 1 and from advanced study in the field, if they did not have the required average of 75%. In the ensuing discussion, it was agreed to set up a new course covering the material in Mathematics 1 with a larger number of hours and covering the content of Mathematics 31 as well. It was moved by Professor Keeping, seconded by Dr. Wyman, that such a course covering the contents of Mathematics 1 as well as Mathematics 31 of the high school be approved and that it be called Mathematics 5. Dr. Newbound added that the course description could be identical with that of Mathematics 1, except that the words "review of" would have to be removed. Details of the time required would be considered by the Department of Mathematics and added before referral to General Faculty Council. The motion was carried.

5. Language requirement in B.A. Patterns

(a) Department of English

It was moved by Professor Jones, seconded by Professor Salter, that the following change be made in the prescription for the first year of the English Pattern:-

For "French 2 or Latin 2 or German 2"
substitute "A language other than English".

Carried.

(b) Department of Fine Arts

It was moved by Mr. Peacock, seconded by Professor Mardiros, that the prescription for the first year in each of the three Patterns of the Fine Arts Department be amended as follows:-

For "French 2 or Latin 2 or German 2"
substitute "A language other than English".

Carried.

The meeting adjourned at 6:00 p.m.

K. B. Pearson

K Dean

March 5, 1956.

Minutes of the 461st meeting of the Council of the Faculty of Arts and Science, held on March 5, 1956, at 4:30 p.m. in the Senate Chamber.

Present were:- Professor K.B. Newbound in the Chair; Professors Blackley, Card, Collier, Cormack Croxby, Duggan, Folinsbee, Fostvedt, Glyde, Grayson-Smith, Greene, Hanson, Harris, Harrold, Hocking, Jones, Keeping, Kreisel, Mardiros, May, Miller, Morrison, Moss, Patrick, Phibbs, Peacock, Ryan, Salter, Scott, Spearman, Thomas, Whyte, Wonders, Wyman, and the Registrar.

The Chairman informed Council that Dr. D.E. Smith was unable to be present, due to illness, and that Dean Johns had to attend another meeting; Dr. Newbound had, therefore, been asked to chair the present meeting of the Council of the Faculty of Arts and Science.

1. Minutes of the previous meeting

It was moved by Dr. Collier, seconded by Dr. Folinsbee, that the minutes of the meeting on February 6, 1956, be approved as circulated. The motion was carried.

BUSINESS ARISING FROM THE MINUTES

2. Language requirement in B.A. Patterns

At the February meeting, motions had been passed to the effect that the prescription for the first year of the English Pattern as well as each of the Fine Arts Patterns should include "a language other than English". The Chairman reported that this motion had been passed, in principle, in General Faculty Council, but that the actual wording appearing in the calendar would be -

"French 2 or Latin 2 or German 2 or,
with permission, another language".

3. Report of Committee on Junior and Senior Courses (Dr. E.H. Moss)

Dr. Moss, in his capacity of Chairman of the above Committee, presented the following report:-

I. Terms of Reference

The Committee was asked to consider:

- (a) A valid basis for distinguishing junior from senior courses.
- (b) Whether students are now graduating with a disproportionate number of junior courses in their program; if so, suggested changes in requirements.
- (c) Implications for the numbering of courses, which arise from the previous considerations.

II. Findings

- (a) Valid criteria appear to be:

Junior courses The equivalent of a Grade XII course,

or based on a Grade XII course,

or a first course in a subject, usually appearing in a first-year program and not too difficult for a first-year student.

Senior courses Preceded by a university course in the subject,

or a first course in a subject, but normally not in a first-year program and generally too advanced for a first-year student.

- (b) An analysis of junior and senior courses in the programs of the 1956 graduands gave the following figures:

Average number of courses: Junior 6 (approx.)
Senior 9 (approx.)

156 students have 7, 6, or 5 junior courses and 8, 9, or 10 senior courses,

10 students have more than 7 junior courses,

7 students have fewer than 5 junior courses.

It is considered that, with few exceptions, students have not too many junior courses in their program.

- (c) Though extensive changes in numbering of courses are not advised, renumbering of a few courses would serve a useful purpose.

III. Recommendations

- (a) The following change in the Calendar description of courses is recommended:-

Paragraph commencing: "Courses numbered ---" (1955-56 calendar, p. 131) to read as follows:-

March 5, 1956.

Courses numbered 1 to 39 inclusive, described as junior, are open to first-year students and are also available as options in senior years of certain patterns. Courses numbered 40 to 99, described as senior, are designed primarily for students beyond the first year at University. Those numbered 100 or higher are open mainly to Honors and graduate students. For further information, particularly in the matter of prerequisites, students are advised to consult the section of the calendar containing detailed descriptions of courses.

- (b) It is recommended that the normal number of junior courses in a Pattern program be regarded as six and that the number should only rarely exceed seven.
- (c) The following changes in course numbers are recommended:-

Art 40 to 35	)	
Drama 40 to 35	)	or, possibly, lower numbers
Music 41 to 35	)	

Chemistry 40 to 35
 Physics 40 to 35
 Physics 41 to 36

Respectfully submitted
 by the Committee,

E.H. Moss (Chairman),
 E.J.H. Greene,
 H. Kreisel,
 J.L. Morrison,
 K.B. Newbound,
 L.G. Thomas,
 W.C. Wonders.

It was moved by Dr. Moss, seconded by Dr. Greene, that this report be received by Council. The motion was carried.

There was considerable discussion on part III (Recommendations) of the report. The Chairman pointed out that the Committee's recommendations would be put into practice later with utmost care to suit the needs of the individual Department and in close collaboration with the Registrar, but that it was necessary first to approve them in principle. There was some criticism of the criteria for the designations "junior" and "senior" as stated in II (a) of the report. Dr. Moss replied to this that these criteria had been used in the work of the Committee and as a basis for its recommendations, but that they were not to be regarded as official statements for the calendar. Professor Salter thought

that a distinction between "introductory" and "advanced" courses would be preferable to that between "junior" and "senior". It was further pointed out that, in drawing the line at the number 40, Chemistry 40 for instance would fall under the category of senior courses, although it was prescribed or permitted in the first year of several Patterns; the same was true in the cases of Psychology 40 and Philosophy 40. In reply to this, it was suggested that in such cases the Departments concerned could renumber courses in the thirties, if they thought it expedient. Professor Mardiros stated that he preferred to see Philosophy 40 retain senior status. Dr. Moss replied that, even so, there would be no objection to its inclusion in the first year programs of the Philosophy and the Psychology Pattern. Dr. Newbound added that the Committee had drawn the line at 40 deliberately, since that would necessitate the least number of changes. It was then moved by Dr. Moss, seconded by Dr. Kreisel, that the Committee's recommendation contained in III (a) be approved. Carried.

It was further moved by Dr. Moss, seconded by Dr. Kreisel, that the recommendation under III (b) be approved. Dr. Folinsbee pointed out that, through the proposed renumbering, a larger number of junior courses could appear in students' programs. The Chairman replied that the Patterns would take care of this. The motion was carried.

Dr. Miller felt that another reason for dropping the rigid distinction between junior and senior courses was the fact that second class standing was no longer required in a certain number of senior courses only.

Professor Moss then moved, seconded by Professor Glyde, that the recommendation under III (c) be approved as follows:-

Art 40 to 35	)	
Drama 40 to 35	)	or, possibly, lower numbers,
Music 41 to 35	)	
Chemistry 40 to 35	)	
Physics 40 to 35	)	or, possibly, lower numbers,
Physics 41 to 36	)	

as well as such other corresponding changes as Departments may see fit.

The motion was carried.

March 5, 1956.

NEW BUSINESS

4. Department of Fine Arts (Drama Division) - New Course

It was moved by Mr. Peacock, seconded by Professor Glyde, that a new course in the Division of Drama be approved as follows:-

Drama 40. Voice and Speech

(3-0;3-0)

This is an introductory course in speech with emphasis upon oral interpretation. The first session will be devoted to a discussion of the importance of our spoken language, a study of the vocal mechanism and causes of poor phonation, and practice in the proper production of voice and speech. The second session will be concerned with the expression of personality through speech; audience psychology, oral interpretation and practice, Some reference to other speech situations.

(No extra staff or expenditure. Additional classroom space required probably.)

(This course had already been approved by General Faculty Council, subject to approval by the Council of the Faculty of Arts and Science.)

Professor Card wondered whether this course would duplicate, to some extent, the course in Education 255 (Speech and Dramatization). Mr. Peacock admitted that there could be a small amount of overlapping. The course would be open to students in other Patterns as well. The motion was carried.

5. Special Cases(a) Frederick George Hulmes

Dr. Harris, on behalf of the Revisions Committee, presented the case of Mr. Hulmes, a student in third year Honors Political Science. Mr. Hulmes had petitioned the Council of the Faculty of Arts and Science to be allowed to revert to the pass course and, on the satisfactory completion of his present program, receive his degree. As his reason he stated that, due to his father's illness, he would have to "become, in large measure, the financial head of the house" and would not be able to return to the University for his fourth year. Dr. Harris pointed out that Mr. Hulmes lacked one science course, but would have fifteen courses on completion of his present program; his record so far had been very good. Dr. Harris moved, seconded by Dr. Blackley, that Mr. Hulmes' request be granted. The motion was carried.

(b) James Wolfe Murray

Dr. Harris then presented the case of Mr. Murray, a third year student in Honors Geology. Due to his father's illness, Mr. Murray would "have to remain at home in order to look after the family business" and would be unable to return to the University for his final year. He had, therefore, petitioned the Council of the Faculty of Arts and Science to be allowed to revert to the pass course and, on the satisfactory completion of his present program, receive his degree. His record in the past two years had been very good indeed. Dr. Harris moved, seconded by Dr. Blackley, that Mr. Murray's request be granted. The motion was carried.

6. Department of Mathematics - Examinations

It was moved by Professor Keeping, seconded by Dr. Wyman, that the Department of Mathematics be permitted to dispense with examinations in Mathematics 106, 109, and 111, since it was felt that the achievements of the students concerned could be assessed adequately on the basis of term work done. The motion was carried.

7. Income Tax Guide for University Teachers

The Chairman announced that a brochure "A Guide to Canadian Income Tax for University Teachers" had been received and would be available for consultation in the Dean's Office.

The meeting adjourned at 5:50 p.m.

Walter H. Johns

Dean.

May 8, 1956.

Minutes of the 462nd meeting of the Council of the Faculty of Arts and Science, held on May 8, 1956, at 2:00 p.m. in the Senate Chamber.

Present were:- Dean Johns in the chair; Professors Blackley, Card, Collier, Collins, Cormack, Crosby, Duggan, Fostvedt, Gainer, Goodale, Gowan, Greene, Hanson, Hardy, Harris, Hocking, Horton, Jacka, Jones, Keeping, Kreisel, McIntyre, Mardiros, May, Moore, Moser, Moss, Mueller, Newbound, Nichols, Patrick, Phibbs, Peacock, Salter, Scott, Smith, Spearman, Stelck, Thomas, Walker, Whyte, Wonders, Wyman, and Mr. Cairns.

The Chairman expressed his appreciation of the assistance of Professor D.E. Smith and Dr. K.B. Newbound in the work of his office throughout the session and welcomed as new statutory members of the Council of the Faculty of Arts and Science Associate Professors A.B. Bhatia, G.R. Davy, R.C. Jacka, and G.K. Horton; the former two, however, had been unable to attend this meeting of Council.

1. Minutes of the meeting of March 5, 1956

It was moved by Dr. Wyman, seconded by Professor Keeping, that the minutes of the meeting of March 5, 1956, be approved as circulated. The motion was carried.

2. Report of the Committee on Honors re Graduands

Professor D.E. Smith, acting as Chairman of the Committee on Honors, presented the report of that Committee as follows:-

Recommended for the Governor General's Gold Medal:-

Webb, Thomas Evan

Recommended for First Class Honors:-

Cseuz, Anton Alexander	(Mathematics)
Hyduk, Zennia Montana	(Mathematics)
Kendall, Lorne Melvin	(Psychology)
Kuester, Jacqueline Helen	(Mathematics)
Orvis, Roy Lynn	(Chemistry)
Richardson, Rhoda Evelyn	(Chemistry)
Saunders, Patricia Ann	(English)
Shortreed, Barbara June	(Chemistry)
Sorensen, Theodore Strang	(Chemistry)
Sporleder, Maria	(Modern Languages)
Webb, Thomas Evan	(Biochemistry)
Wickenden, John Nicholas	(History)

Recommended for Honors:-

Edgar, Hugh Maxwell Wallace	(Mathematics)
Gardner, Robert Charles	(Psychology)
Hutchinson, Kenneth David	(Geology)
Koch, Norris Gayle	(Geology)
McKinnon, Ronald Ian	(Economics)
Perrott, Shirley Bernice	(Biochemistry)
Webster, Thomas Ferris	(Physics)
Wishart, William David	(Conservative Biology)
Wyers, Hubert William	(Economics)

It was moved by Professor Smith, seconded by Professor Nichols, that the report be approved. Carried.

3. Report of the Revisions Committee

Professor W.D. Gainer presented the recommendations of the Revisions Committee concerning graduands in the B.A. and B.Sc. programs as well as the winners of the Lieutenant Governor's Gold Medals as follows:-

Recommended for the Lieutenant Governor's Gold Medals:-B.A.:-

Dunlop, Charles Richard Bentley

B.Sc.:-

Kerr, James William

Recommended for the degree of Bachelor of Arts:-

Abercrombie, William	Diakur, Peter
Adam, Kenneth Stuart	Donald, Ann Elizabeth
Allan, Robert Harvie	Dunlop, Charles Richard Bentley -
Arnell, Gordon Edwin	1st class general standing
Baker, Sandra Louise	Dyer, Irene Muriel
Balay, Eugene Elmer	Elhard, Gordon Elmer
Beers, Donald Walter	Engle, Raphael Sydney
Blain, William Ross	Faber, Louis
Bower, Ruth Catherine	Farquarson, Ian Bruce
Brady, Sheila Anne	Farrell, Beatrice Jeannette
Brinsmead, Ralph Edward	Fodchuk, Boris William Frederik
Caffaro, Peter (Pier) Mario	Fyvie, Aileen Ruth
Chapman, Darlene Violet	Garrison, Edith Greta
Chapman, Thomas Harold	Genser nee Rosen, Shirley
Clark, Gerald Ronald	Hartwig, Aileen Marilyn
Clark, Keitha Diane	Hendrickson, Mary Pauline
Coleman, Herbert Sherman	Hinkel, Shirlee Ann
Cummings, John Martin	Horton, Pamela
Curlett, Colgan Cleveland	Hulmes, Frederik George -
Daneliuk, Carl	1st class standing
Dawson, Barbara Ann	Hyndman, Louis Davies

May 8, 1956.

Recommended for B.A. (cont'd)

Jellis, Jennifer-Anne
 Johnson, Harry Rowsell
 Jones, Lyle Brian
 Joudrie, Herbert Earl
 Kane, Edward William Scott
 Keylock, Leslie Robert
 Kroening, Clifford Walter -
 1st class standing
 Kruger, Oscar Herbert
 Leitch, nee Demco, Theresa Marion
 Lien, Ruth Eleanor
 Lyons, Alan Leonard
 McArthur, Evangeline Elizabeth
 McGregor, Barbara Frances
 Macgregor, Donald Alan
 McKinnon, Ronald Ian -
 Honors in Economics
 Maynard, Honora Anne Marie
 Milvain, Robert Elliot Hogarth
 Mitchell, Thora Florence
 Mondea, Evelyn May
 Myers, Edward Hugh
 Nelson, Stella Elaine
 Newton, Margaret Eleanor
 Osler, William Edmund
 Ostry, Donald Harry
 Peacock, John Charles
 Philip, William
 Ritchie, Allan Bruce
 Roberts, Robert Hanson

Robertson, George William
 Saunders, Patricia Ann -
 1st class Honors in English
 Schlosser, Judith Ann
 Scott, Arthur Leslie
 Seal, Andrew Robert
 Shaw, Cecille Lea
 Shymka, Ernest Russell
 Sissons, Frances Marie
 Smith, Robert Frederick
 Sporleder, Maria -
 1st class Honors in Mod.Lang.
 Stephens, Sheila Keith
 Stevenson, David Finley
 Stevenson, William Alexander
 Stewart, Andrew Robert Borland
 Stillings, Laura Mae
 Strohschein, Allan Fred
 Sweet, Linda Adele
 Terflooth, John Helmuth
 Visser, John Charles
 Weir, John Alexander
 Wickenden, John Nicholas -
 1st class Honors in History
 Wiebe, Rudy Henry -
 1st class standing
 Wiedemann, Roy Joseph
 Wright, Elizabeth Evelyn
 Wyers, Hubert William -
 Honors in Economics

Recommended for the degree of Bachelor of Science:-

Acton, Michael James
 Bateman, nee Seal, Jean Caroline
 Faye
 Boake, Rex Clark
 Clark, Norman Ancrom
 Cseuz, Anton Alexander -
 1st class Honors in Mathematics
 Dawson, Robin Humphrey
 Edgar, Hugh Maxwell Wallace -
 Honors in Mathematics
 Elliot, Bernard Quentin
 Fish, Donald Harvey
 Froggat, James Roland Somerset
 Galenzoski, Irene Lucille
 Gardner, Robert Charles -
 Honors in Psychology

Grevett, Marilyn Ruth
 Hamilton, Norman Edgar
 Harley, William Thomas
 Hutchinson, Kenneth David -
 Honors in Geology
 Hyduk, Zennia Montana -
 1st class Honors in Mathematics
 Jenkins, Brian Wayne
 Johnstone, Morven Campbell
 Junck, Robert Owen
 Kaila, Shirley Jean
 Kendall, Lorne Melvin -
 1st class Honors in Psychology
 Kerr, James William -
 1st class standing
 Kinnear, Jack Edward

Recommended for B.Sc. (cont'd)

Knopp, William Roy	Richardson, Rhoda Evelyn -
Koch, Norris Gayle, -	1st class Honors in Chemistry
Honors in Geology	Saarinen, Thomas Frederick
Kuester, Jacqueline Helen -	Scott, Merle Ian
1st class Honors in Mathematics	
Lorenz, Mervin Andrew	Sheptycki, Bernadette Sylvia
Lozeron, Homer Alan	Shortreed, Barbara June -
McArthur, Mervin Ian	1st class Honors in Chemistry
MacCosham, Edgar Hannes	Sorensen, Theodore Strang -
Madge, Ronald Bradley	1st class Honors in Chemistry
Marston, Robert Irwin	Sorochuk, Edward Allan
Michael, Mary-HeleneAlexandra Hargrave	
Miller, John Douglas Moore	Strembitsky, John
Milton, Earl Richard Vincent	Swan, Patrick John
Mogensen, Hugh	Swift, James Herbert
Mosychuk, Harry	Thomas Julian Paul
Murray, James Wolfe -	Thompson, John Grabell
1st class standing	Titosky, Shirley Yvonne
Orvis, Roy Lynn -	Vanags, Dzintra
1st class Honors in Chemistry	
Parker, Patricia Edna	Walchuk, Tony
Parker, Phyllis Norma	Waller, Philip Charles
Perrott, Shirley Bernice -	Webb, Thomas Evan -
Honors in Biochemistry	1st class Honors in Biochemistry
Peterson, Nathan Melvin	Webster, Thomas Ferris -
Quigley, Douglas Gordon	Honors in Physics
Rhoades, Berna Jean	Wilkins, Raymond Walter
	Wilson, Wayne Richard
	Wishart, William David -
	Honors in Conservation Biology

It was moved by Professor Gainer, seconded by Dr. Harris, that the above candidates be recommended to General Faculty Council for their degrees. The motion was carried.

Professor Gainer presented the case of Miss Mae Myrtle Hango. Miss Hango had entered the University in 1929 with junior matriculation. In the spring of 1956, she had completed nineteen courses, with second class standing in three senior and three junior courses. It was moved by Professor Gainer, seconded by Dr. Harris, that Miss Hango be awarded the B.A. degree on the basis of work completed to date. Carried.

Professor Gainer then presented the case of Miss Elizabeth Alice Landymore. Miss Landymore had completed three years in the University, but had been able to secure second class standing in only one course in the first two

May 8, 1956.

years. In her final year her work improved considerably, and she had achieved second class standing in four courses, with an average of 69.8%. It was moved by Professor Gainer, seconded by Dr. Harris, that Miss Landymore be awarded the B.A. degree on the basis of her work to-date. Carried.

Professor Gainer then presented the case of Mr. David William Hankin, who had completed three years towards the B.Sc. in the Zoology Pattern, but lacked second class standing in the half course Zoology 57, his mark being 59%. Professor Gainer moved, seconded by Dr. Harris, that, in view of Mr. Hankin's otherwise satisfactory record, he be awarded the degree of B.Sc. on the basis of work done to date. Carried.

Professor Gainer then submitted the Revisions Committee's recommendations regarding students who had failed to meet the requirements for the degrees of B.A. and B.Sc. as follows:-

Failed to meet requirements for the B.A. degree:-

Cairns, Gordon Barker	lacks 1 second
Bell, Patricia Anne	lacks 3 seconds
Bertles, Hugh Brian	lacks 2 seconds
Cush, Kenneth Austin	did not write 3 examinations in Law
Dawson, Robert Brian	needs 1 second
Edwards, David Richard	failed Greek 1
Ferguson, Walter Murray	failed Greek 40, needs 1 second
Fleury, Francis John	2 failures, needs 3 seconds
Ghitter, Ronald David	lacks 2 seconds
Gliener, Isidor Gordon	lacks 2 seconds
Grace, William Dawson	lacks 1 second
Jones, Frank Douglas	1 failure, lacks 1 second
Laughren, Irwin Graham	lacks 3 seconds
McKay, Allison Jean	lacks 4 seconds
MacKeen, James Henry George	1 failure, lacks 2 seconds
McLeod, John Kenneth	lacks 5 seconds and Phys. Ed.
Moser, Edward Henry	1 failure
Munro, James Edward	lacks 1 course
Pidruchney, Wm. T.	1 failure in Law
Roddie, Robert Grant	1 failure, lacks 1 second
Saddy, Edward Richard	1 deferred final, lacks 1 second
Sherman, John Meinte	1 failure, lacks 1 second
Smith, Mary Kirkpatrick	1 failure, lacks 2 senior seconds
Steen, Norma Fay	lacks 1 second
Symington, Gwendolyn Eileen	lacks 4 seconds

Failed to meet requirements for the B.A. (cont'd):-

Geary, Barbara Marion	1 failure, lacks 3 seconds
Hermery, Maurice Yvon	lacks 2 seconds
Watson, Lois Patricia	lacks 2 courses
Williscroft, Dorothy Beatrice C.	needs 4 seconds
Wontner, Cecil James	1 failure, needs 2 seconds

Failed to meet requirements for the B.Sc. degree:-

Ayling, Robert Edward	lacks 1 course, 1 second
Baker, Patricia	lacks 1 second
Chetner, David Robert	lacks 1 second
Guild, Jack David	1 failure, lacks 1 second
* Hamel, Raymond Wilfrid	lacks 1 second
Jendruska, Victor	deferred final in Zoology 51
Harrison, Alfred Barry	1 failure, needs 1 second
Hillerud, John Martin	1 failure, needs 1 second
Holowaychuk, Walter Steven	1 failure
Horricks, Manville Graeme	1 failure, needs 4 seconds
Hrdlicka, Ethel Elsie	4 final examinations deferred
Hurlburt, Robert Gordon	2 final examinations deferred
Kisilevich, Lawrence	1 failure, lacks 1 second
Loven, Galen Ernest	lacks $\frac{1}{2}$ course, $2\frac{1}{2}$ seconds
MacKenzie, George Duncan	lacks 1 second
Mott, Roger Terrance	1 failure
Nelles, Robert Bruce	needs $1\frac{1}{2}$ seconds
Orr, Robert Dobson	1 failure
Ratsoy, Edward	1 failure, needs 3 seconds
Schultz, Elmer	1 failure
Steeves, Gordon B	lacks 1 second
Tester, Donald Edward	lacks 3 courses (incl. List I and II) and 1 second
Young, Harry Gordon	lacks 3 seconds
Zahar, Edward William Roy	lacks 3 seconds
Murakami, Hisashi	lacks English 5 and 2 seconds
Powlan, Ronald Organ	lacks 2 seconds

It was moved by Professor Gainer, seconded by Dr. Harris, that these recommendations of the Revisions Committee be approved. Carried.

4. Report of the School of Household Economics

Professor M. Patrick presented the report of the School of Household Economics as follows:-

Recommended for the degree of B.Sc. in Household Economics:-

Bazley, Grace Loreen	Clark, Joan Mary
Brett, Eileen Ethne	Gardiner, Kathleen Mary Rachel
Carlson, Gladys Lenora	Hall, Marion Thompson
Clark, Evelyn Ann	Krupa, Joan Helen Mary

* Later, Mr. Hamel's case was reconsidered by the Revisions Committee, and it was decided to award him the B.Sc. degree on the basis of work done to date.

May 8, 1956

Recommended for the degree of B.Sc. in H.Ec. (cont'd)

Melnychuk nee Miskew, Marianna June	Phillips, Joanne Patricia
Nelson nee Thorkman, June Bernice	Sanford, Gwendolyn Louise
Ostafychuk, Patricia Alexandra	Stern, Edith
Oulton, Dolores Marjorie	Virtue, Carol Ruth
Pappas, Jacqueline Eleanor	Warnick nee Shpur, Stella Leone
Penosky, Shirley Ann	Wasylyshyn, Christine Sonia

Failed to meet requirements for the degree of B.Sc. in H.Ec.:-

Scherban, Sylvia Elsie	lacks 2 seconds
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It was moved by Miss Patrick, seconded by Miss MacIntyre, that the report of the School of Household Economics be approved. The motion was carried.

.5. Report of the School of Commerce

It was moved by Professor Goodale, seconded by Dr. Hanson, that the report of the School of Commerce be approved as follows:-

Recommended for the degree of B.Com.:-

Campbell, D.M.	Reardon, K.A.
Culbert, J.C.	Richards, M.J.
Davies, S.J.	Sherbaniuk, J.A., (B.A.)
Elford, E.C.	Robertson, B.J.
Fairley, W.O.	Shulsky, R.D.
Gilholme, G.R.	Silverton, E.M.
Graschuk, H.S.	Smith, G.W.
Haskayne, R.F.	Trimble, G.D.
Hatch, D.T.	Tweddle, J.M.
Hudson, B.L.	Walker, W.R.
Hudson, G.B.	Walsh, J.N.
Lange, G.W.	Watson, P.H.C.
Maxwell, W.	Young, G.C.
Page, D.G.	
Penner, E.G.M.	

Failed to meet requirements for the degree of B.Com.:-

Jorgensen, E.	lacks 3 seconds, 1 failure
Lemay, B.H.	lacks 2 seconds, 1 failure
Macintosh, N.B.	lacks 2 seconds, 2 failures
Steele, C.R.	1 failure

It was agreed that the note "First Class Standing" should be added to the names of B.L. Hudson and D.G. Page. With this amendment, the motion was carried.

6. Report of the Department of Fine Arts

It was moved by Mr. Peacock, seconded by Dr. Blackley, that the following students be recommended to receive the Intermediate Diploma in Art:-

Figol, Marlene Anne
Schmidt, Henriette A.

The motion was carried.

7. Authority for revision of examination results for undergraduates and for Summer Session students

It was moved by Professor Keeping, seconded by Professor Moss, that the Dean be empowered to appoint a special Revisions Committee from the Council to deal with summer session results, and that the regular Revisions Committee be empowered to deal with the results of supplemental examinations in this Faculty.

Motion carried.

8. School of Household Economics - regulations regarding second class standing

It was moved by Miss Patrick, seconded by Miss McIntyre, that the following motion passed in the School of Household Economics be approved by the Council of the Faculty of Arts and Science:-

The School of Household Economics recommends to the Faculty of Arts and Science that regulations regarding second-class standing for the degree in Household Economics be the same as those in Arts and Science, which read - "Students must obtain second class standing, i.e. a mark of 65%, in no fewer than six courses, of which at least four are taken in the second and third years".

The motion was carried.

9. Special Case - Richard L. Collver

The Chairman presented the case of Mr. Richard Lee Collver, who had entered University in the combined course leading to the degrees of B.A. and LL.B. and was now applying for admission to the Faculty of Law. Mr. Collver had completed his first year in 1953-54, obtaining four passes and one second, but in his second year had failed all of the courses in which he was registered. However, in view of his ability and on the recommendation of Student Advisory

May 8, 1956.

Services, he was re-admitted the following year and permitted to repeat four of his subjects and to substitute History 57 for History 58. In this program Mr. Collver had achieved the required number of seconds and an average of 63%, but in view of the fact that four of the subjects had been repeated, this achievement did not seem to justify admission to the Faculty of Law. In his final examination in Economics 66, Mr. Collver had become ill and had turned in an unfinished paper; Dr. Hanson thought it likely that he would have obtained a mark in the sixties, had he been able to finish the paper. This, however, would not change the general situation. Dean Bowker of the Faculty of Law concurred in this view. It was moved by Dr. Hanson, seconded by Dr. Hocking, that Mr. Collver's request be turned down and that he be asked to complete another year in the Faculty of Arts and Science in order to obtain the B.A. degree, before applying again for admission to the Faculty of Law. The motion was carried.

10. Retiring members of the Council of the Faculty of Arts and Science

The Chairman asked permission to record in the minutes the following expression of appreciation by this Council of the services of three retiring members:-

This year the Council of the Faculty of Arts and Science loses the services of three members, who have made substantial contributions to the life of the University for a period of nearly forty years.

Professor Mabel Patrick joined the staff of the University of Alberta in 1918 and has acted as Director of the School of Household Economics since 1930. Throughout a period of thirty-eight years she has almost personified the School, and hundreds of graduates look back on their studies under Miss Patrick with gratitude and pride. To be known as "one of Miss Patrick's girls" has always been a guarantee of acceptance into the ranks of professionally trained dietitians in Canada. Miss Patrick herself has served her profession in many ways. She has been a charter member of most of the Dietetics and Home Economics Associations in this province and has served on the executives of many local and national professional bodies, often as President.

Professor William Rowan came to us from England in 1920 as a Lecturer in Zoology and has held the rank of Professor for the past twenty-five years. His keen inquiring mind has ranged widely over the broad field of biology, and his contributions in meetings of the Science Association and the Philosophical Society as well as meetings of this Council have always been stimulating and challenging. A Fellow of the Royal Society of Canada, he won the Society's

Flavelle Medal in 1946. As an artist, his work has had the great merits of the most skillful draftsmanship and exquisite care for detail, which made his works masterpieces of lifelike accuracy and beauty.

Professor Lawrence Howard Nichols has been an outstanding teacher of Physics here for thirty-four years. His keen interest in students has won for him a warm place in the hearts of many generations of young men and women who have studied here. To the wider body of students, staff and general public, he is better known as the University organist who has delighted audiences at organ recitals and has added to the dignity of numberless official ceremonies in Convocation Hall.

These colleagues deserve well of the University and have earned the gratitude of all of us on this Council. This appreciation will be recorded in the minutes of this meeting, together with our best wishes for their future years.

The inclusion in the minutes of this expression of their appreciation was endorsed by the strong applause of members of Council.

The meeting adjourned at 3:00 p.m.

Walter H. Johns

Dean

Minutes of the 463rd meeting of the Council of the Faculty of Arts and Science, held on October 1, 1956 at 4:30 p.m. in Room 142 of the Arts Building.

Present were: Dean Johns in the Chair; Professors Bhatia, Blackley, Card, Collins, Cook, Cormack, Davy, Duggan, Folinsbee, Glyde, Goodale, Grayson-Smith, Greene, Harris, Hocking, Horton, Jacka, Jones, Keeping, Kreisel, Lindberg, McIntyre, Mackenzie, Mardiros, Miller, Moore, Morrison, Peacock, Ryan, Salter, Samuel, Scargill, Scott, Smith, Spearman, Stelck, Thomas, Tuba, Von Richthofen, Whyte, Wyman, and James.

The Chairman welcomed Professor Hazel McIntyre as Director of the School of Household Economics, Dr. Eric Von Richthofen, Associate Professor of Modern Languages, Dr. R. L. James, Assistant Professor of Sociology, Associate Professor G. Samuel, and Dr. F. D. Blackley as Assistant to the Dean.

1. Minutes of the previous meeting

The Chairman read those parts of the minutes of the previous meeting that dealt with business other than the lists of graduands. It was moved by Professor Wyman, seconded by Professor Moore, that the minutes be approved. The motion was carried.

2. Report of Summer Session Revisions Committee (Dr. D. E. Smith)

Dr. Smith moved, seconded by Dr. Harris, that the report of the Summer Session Revisions Committee be approved as follows:

The following students are recommended for the degree of B.A:

Chomik, Harry	Skirrow, Stanley John
Cristall, Mrs. Sheila Joan	Smith, Hubert Melville
Link, Edward Bennie	Spackman, Ronald Elmer
Munro, James Edward	Sister Marguerite M. Cote
Sackman, George John	Watson, Lois Patricia

The following students are recommended for the degree of B.Sc:

Antonenko, Peter	Mott, Roger Terance
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The following students failed to meet the requirements for the degree of B.A:

Ghitter, Ronald David (lacks one second, writing September supplemental)
 Jones, Frank Douglas (lacks one second)
 Miller, Kenneth (lacks one second, writing September supplemental)
 Simons, Harold (lacks one course, seconds clear)
 Syska, Eugene Stan (lacks two seconds)

The motion was carried.

3. Report of Revisions Committee on cases arising out of supplemental and deferred examinations (Dr. F. D. Blackley)

It was moved by Dr. Blackley, seconded by Dr. Harris, that the report of the regular Revisions Committee on cases arising out of supplemental and deferred examinations be approved as follows:

The following students are recommended for the degree of B.A:

Cameron, John
Cush, Kenneth Austin
Dawson, Robert Brian
Ellis, Walter Edmund Warren
Ghitter, Ronald David
Gliener, Isidor (Philosophy 51 raised from 62 to 65)
Grace, William Dawson
Hermery, Maurice Yvon
Jones, Frank Douglas
Miller, Kenneth
Pidruchney, William Theodore
Saddy, Edward Richard
Steen, Norma Fay
Woodhams, Geoffrey Gordon

The following students are recommended for the degree of B.Sc:

Harrison, Alfred Barry
Hillerud, John Martin
Hrdlicka, Ethel Elsie
Jendruska, Victor
Kisilevich, Lawrence (Mathematics 55 changed from 63 to 65)
Nelles, Robert Bruce
Niziol, Stephen Joseph
Parkkari, John Harlan
Simons, Harold

The following students failed to meet the requirements for the degree of B.A:

Bell, Patricia Ann (lacks three seconds, will write supplemental in Geology 1 for second and is taking Phil. 53, Hist. 71, Eng. 51 and Ed. 476)
Bertles, Hugh Brian (lacks one second)
Edwards, David Richard (lacks one subject, Greek 1, which he is repeating while at St. Stephens College)
Fleury, Francis John (lacks three seconds and needs two courses)
Geary, Barbara Marion (lacks two seconds and needs one course)
Laughren, Graham Irwin (lacks two seconds)
Moser, Edward Henry (lacks one course, Biology 41)
McKay, Allison Jean (lacks three seconds)
Noble, Harry Johnstone (lacks three seconds)
Price, Marilyn Cecile (lacks one second and one course, Art 51, and was absent from deferred final)
Roddie, Robert Grant (lacks one second)
Sherman, John Meinte (lacks one second and one course, but is writing an October supplemental)
Smith, Mary K. (lacks two senior seconds and Latin 2)

The following students failed to meet the requirements for the degree of B.Sc:

Afaganis, Ernest John (lacks three seconds and needs one course)
 Ashford, David Ray (lacks one second and two courses)
 Ayling, Robert Edward (lacks one second)
 Baker, Pat (lacks one second)
 Chetner, David Robert (lacks one second)
 Guild, Jack David (lacks one second, needs Chem. 54 for pattern)
 Holowaychuk, Walter Steven (lacks one course, Math. 55)
 Horricks, Manville Graeme (lacks one course and four seconds)
 Loven, Galen Ernest (lacks $2\frac{1}{2}$ seconds and one half course, Zoo. 56)
 Murakami, Hisashi (lacks English 5, has had four tries)
 Orr, Robert Dobson (lacks one course, Geol. 55, writing October supp)
 Powlan, Ronald Organ (lacks two seconds)
 Ratsoy, Edward (lacks three seconds and one course, Math. 55)
 Schultz, Elmer (lacks Geol. 55 for pattern)
 Steeves, Gordon B. (lacks one second)
 Young, Harry Gordon (lacks two seconds)

Note: In the case of Murakami, Hisashi, who lacks English 5 for his degree and has tried to obtain credit for it four times, the following motion was made:

Moved by Professor Salter, seconded by Professor Bhatia, that Mr. Murakami be granted his B.Sc. degree without credit in English 5. The motion was defeated.

The following student failed to meet the requirements for the degree of B.Sc. in Household Economics:

Scherban, Sylvia Elsie (lacks one second)

The motion was carried.

4. Report of the School of Commerce (Professor Goodale)

It was moved by Professor Goodale, seconded by Dr. Blackley, that the report of the School of Commerce be approved as follows:

The following students are recommended for the degree of B.Com:

Lopushinski, Victor
 Steele, Charles Ronald

The following students failed to meet the requirements for the degree of B.Com:

Macintosh, Norman B. (lacks two seconds)
 Jorgenson, Edgar (lacks two seconds)
 Kerr, Donald S. (lacks one second)

The motion was carried.

5. Motion regarding cases arising out of special supplemental examinations

It was moved by Dr. Blackley, seconded by Dr. Whyte, that the Revisions Committee be empowered to refer directly to General Faculty Council cases where students become eligible for graduation on the basis of deferred supplemental examinations written in October. The motion was carried.

6. Special cases

Mr. Norman A. Bradley

Mr. Bradley is a middle-aged man and an engineer of distinction who wishes to study Law. In a letter to Mr. Bradley on November 8, 1955 Dr. Newbound set out his pre-Law program and suggested a possible accelerated program should Mr. Bradley prove himself capable of such a program. Mr. Bradley obtained good enough marks in the 1956 Summer Session to warrant allowing him to follow an accelerated program allowing credit in the C Division for two courses completed during his course in the Faculty of Engineering. It was moved by Dr. Cormack, seconded by Professor Keeping, that Mr. Bradley be allowed to take six courses in the 1956-57 Winter Session to complete pre-Law requirements. The motion was carried.

Miss Gene Eisert

Miss Eisert was enrolled last year in the Diploma Art course. During final examinations, her father, a farmer, became ill and died. Miss Eisert was obliged to defer her examinations and then found it impossible to write even deferred finals. Miss Eisert is a good student and had an average of approximately 70% in her term work in the 1955-56 session. Professor Glyde therefore moved, seconded by Professor Scargill, that the record for Miss Eisert's first year be based completely on her record during the term. The motion was carried.

Mr. Eugene Brody

Mr. Brody, who is a congenital spastic, registered in September, 1951 as a special student with a partial matriculation. He cleared his deficiencies in September, 1956 by obtaining 62% in Mathematics A, which gave him an average of 59% in his Grade XII Subjects. He now requests that his credits obtained as a special student be given status of degree credits. In the light of his physical infirmity, the following motion was made: Dr. Collins moved, seconded by Dr. Scott, that the courses taken by Mr. Brody as a special student be given the status of fully credited courses. The motion was carried.

Mr. Walter Edmund Warren Ellis

Mr. Ellis has been an excellent student but handicapped by an illness which prevented writing of examinations in April, 1956 which would have qualified him for the B.A. degree. He has since written deferred finals in three courses and has presented evidence of competence in the other two courses in his program. It was moved by Professor Davy, seconded by Dr. Thomas, that Mr. Ellis be awarded his B.A. degree on the basis of aegrotat standing. The motion was carried.

7. Staff Travel Committee

The Chairman read to the Council an announcement made by the Bursar that the Board of Governors has approved the extension of the terms of the Staff Travel Committee to include part-time teaching and research staff of the University. The Chairman asked that this information be passed on to members of the staff.

8. B.A. after B.Sc. and B.Sc. after B.A.

There are no regulations setting out the requirements for the B.A. degree after the B.Sc. in Arts and Science nor the B.Sc. degree after the B.A. Cases of this kind will have to be referred to the Patterns Committee but in the meantime the Chairman asked if Council would approve the principle of obtaining one degree after the other. Professor Salter moved, seconded by Professor Kreisel, that Council approve the principle of students obtaining one degree after the other, and that the Patterns Committee be asked to make a recommendation to Council on the matter.

9. Pattern Changes (Dr. D. E. Smith)

(a) Mathematics 1 and 5

Dr. Smith reported that in the 1956-57 Arts and Science calendar he had changed every B.Sc. pattern to read "Mathematics 1 or 5" where it previously read "Mathematics 1". He had taken this action to make the patterns conform to the general regulations governing matriculation for the Faculty. Dr. Smith moved, seconded by Dr. Blackley, that Council approve the above pattern prescription. The motion was carried with Professor Horton and Scott dissenting.

(b) Mathematics 3

Dr. Smith reported that the 1956-57 Arts and Science calendar also states that Mathematics 3 is open to students in the Biological patterns, subject to the approval of the Department of Mathematics. It was moved by Dr. Smith, seconded by Professor Horton, that Mathematics 3 be approved as a C division course open to first year B.A. students. The motion was carried.

10. Change in numbering of Mathematics 55

Professor Keeping moved, and Professor Horton seconded, that the course numbered "Mathematics 55" be changed to "Mathematics 57". The motion was carried.

11. New Courses

(a) Physics 108

Professor Grayson-Smith moved, seconded by Professor Scott, that Council approve a new graduate course, Physics 108 (Advanced Geophysics). The motion was carried.

(b) Mathematics 114

Professor Keeping moved, seconded by Professor Horton, that a new course in the Mathematics Department be approved for graduate students -- Mathematics 114 (Advanced Analysis of Variance). The motion was carried.

13. General Biological Patterns Committee

The Chairman brought to the attention of the Council the fact that students taking pre-Medical courses are never satisfied to follow any one of the patterns set out for them. He emphasized the desirability of a general science pattern for students wishing a more general type of science program. An ad hoc ^{committee} was appointed to consider the feasibility of such a pattern with the following members: Professors Smith Brown, Moore, Tuba, Stelck, Scott and a representative from the Faculty of Education, Professor Melsness. The committee will report to Council at the November or December meeting.

The meeting adjourned at 6:10 p.m.

Walter H. Johns.

Dean

Minutes of the 464th meeting of the Council of the Faculty of Arts and Science, held on November 5, 1956 at 4:30 p.m. in the Senate Chamber.

Present were: Dean Johns in the Chair; Professors Bhatia, Blackley, Brown, Card, Collier, Collins, Cook, Cormack, Crosby, Davis, Duggan, Folinsbee, Fostvedt, Gainer, Glyde, Goodale, Grayson-Smith, Greene, Hardy, Harris, Harrold, Horton, Jacka, Jones, Keeping, Kreisel, Mardiros, May, Miller, Moore, Morrison, Moser, Moss, Phibbs, Peacock, Ryan, Salter, Samuel, Scargill, Scott, Smith, Stelck, Thomas, Tuba, von Richthofen, Walker, Wonders, Wyman, James and the Registrar.

1. Minutes of the previous meeting

The Chairman pointed out to Council an error in the minutes of the previous meeting. The name Harold Simons should have been placed in the list of students recommended for the B.A. degree instead of the B.Sc. degree.

It was moved by Professor Moore and seconded by Professor Cormack that with this amendment the minutes be approved as circulated. The motion was carried.

2. Report of Revisions Committee on additional graduands (Dr. F. D. Blackley)

Dr. Blackley reported that the following students became eligible for graduation after the October meeting of the Council of the Faculty of Arts and Science and were recommended to General Faculty Council directly:

(a) As a result of September supplementals:

For the degree of B.Sc: Baker, Pat A.C.

(b) As a result of October supplementals:

For the degree of B.A: Sherman, John Meinte (formerly Schuurmans)

For the degree of B.Sc: Edgar, Mrs. Robert (nee Free, Eleanor Ruth)

Murakami, Hisashi

Orr, Robert Dobson

3. Honors Programs

A. Recommendations from Honors Committee

(a) Revised program for Honors in English

It was moved by Professor Jones, seconded by Professor Salter, that Council adopt the following recommendation for a revised program in Honors English:

Students wishing to read for Honors in English should consult the head of the department at the beginning of the first year. Their registration should be that of students in the first year of the English pattern.

Students deciding during or at the end of the first year to undertake Honors in English must consult the head of the department at the earliest possible moment in order to ascertain whether their first-year

courses and their standing in these courses are acceptable as a basis for admission to Honors at the beginning of the second year; and in cases where the first-year courses do not seem to provide an adequate basis, to discuss what extra work should be taken.

Second year

Two senior English courses; continuation of a language studied in the first year; two options.

Third year

Three senior English courses; two options. English 112 will be commenced in this year and continued throughout the fourth.

Fourth year

Four courses, of which at least two shall be senior English courses. English 112 is to be continued and will count as a fifth course.

Note: Six of the senior English courses must be chosen to represent each of the following periods of literature: Middle English, Elizabethan, Seventeenth Century, Eighteenth Century, Romantic, Victorian. In addition, English 71 and English 112 will be required. At the discretion of the department, a student may take up to eleven senior English courses. All courses, including options, are to be chosen in consultation with the chairman of the department.

At the beginning of the third year students in Honors English will write an examination on the history of English literature. Texts will be recommended by the chairman of the department.

The motion was carried.

(b) Department of Mathematics

It was moved by Professor Keeping and seconded by Professor Moser that Council approve the following recommendations from the Honors Committee:

(i) Revision of the note appended to the description of the program for Honors in Mathematics:

Note: The program selected must be approved by the Department of Mathematics. Students who hope to do graduate work in Mathematics are strongly advised to select three of the open options in third and fourth years from courses offered by the Department.

Students who wish to specialize in statistics, or who look forward to working for the Master's degree in mathematical statistics, should choose Mathematics 62 and 106 among their options and may choose certain options in the Social Sciences or Biometrics (in particular Biometrics 103 in the Department of Plant Science).

(ii) Honors in Applied Mathematics

The B.Sc. degree with Honors in Applied Mathematics may be taken by students who wish to specialize in mechanics, including such subjects as hydrodynamics, aerodynamics, elasticity, and relativity.

First year, as above

Second year, Math. 40, Math. 41, Physics 42, Physics 46, option from Divisions A or B.

Third year, Math. 56, Math. 57, Physics 53, two options.

Fourth year, Math. 102, three options from Division C, one option from Divisions A or B.

The options should include Math. 104, if available, and Physics 54, Physics 104, and Physics 102.

B. Recommendation on Honors Program (Department of Physics)

Professor Grayson-Smith moved, seconded by Professor Scott, that the following recommendation on Honors made by the Department of Physics be approved by Council:

Change in description of Honors program:

(Professor Grayson-Smith explained that the following is essentially a change in wording):

Third and Fourth Years

A total of ten lecture courses which may be selected so as to emphasize either Experimental or Theoretical Physics. The following courses are normally required of all students: Physics 53, 54, 101, 102, Mathematics 56, 57, an option from Division A or B, and the laboratory course Physics 55.

Students in Experimental Physics should take Physics 56. The two remaining options may be chosen from Physics 60, 104, Chemistry 54, Mathematics 102, a senior Geology course, a course in Electrical Engineering.

Students in Theoretical Physics should take Physics 104, Mathematics 102, and an additional option in Physics or Mathematics.

Students are also expected to take part in the weekly Physics Colloquium.

Students will write the regular examinations in each lecture course taken. In addition, there will be, at the end of the final year, written comprehensive examinations.

Delete second note on p. 63.

The motion was carried.

It was moved by Professor Grayson-Smith, seconded by Professor Folinsbee, that the following recommendation on Honors made by the Departments of Physics and Geology be approved by Council:

New Honors Program in Physics and Geology (to be listed under Department of Physics):

First year (pre-Honors)

Physics 40, Geology 1, Mathematics 1 or 5, Chemistry 40, English 2 or 5S, Physical Education. (The first year of the Geology or Physics patterns may be accepted in consultation with the Department.)

Second year

Physics 46, Geology 51, Mathematics 40, Chemistry 54, A or B. option.

Third year

Physics 54, Geology 54, 57, Mathematics 57, Physics 55a laboratory, A or B opt.

Fourth year

Three senior Physics courses, which should include Physics 60 and 102.
Two senior Geology courses, Geology 55 and 58 are recommended.

Under Geology on p. 58, insert the following note:

For Honors in Physics and Geology see under Department of Physics.

Professor Salter asked Council if there was any upper limit set by the Honors Committee on the number of courses which could be taken in one department. He felt that the Honors programs required too many courses in one department and therefore prevented the student from gaining a general education. Following a brief discussion, it was apparent that no upper limit was specified on the number of courses which can be taken in one department in an Honors program, but the programs were in fact subject to the general regulations governing such programs and each program was subject to approval by Faculty Council.

The motion was carried.

4. Recommendations from Patterns Committee

B.A. after B.Sc. and B.Sc. after B.A. (Professor D. E. Smith):

Professor Smith moved, seconded by Professor Greene, that the following calendar description for the B.A. after B.Sc. pattern and the B.Sc. after B.A. pattern be approved by Council:

Students who have qualified for the degree of B.A. may proceed to the degree of B.Sc. in this Faculty; those who have qualified for the B.Sc. in this Faculty may proceed to the B.A. Students proposing to secure the B.A. or the B.Sc. in this manner will be required to complete a 9-course program conforming as closely as possible to one of the standard Arts and Science patterns, with at least second class standing in five of these courses. Students with incomplete matriculation for the second degree will be required either to remove the deficiencies or to secure credit in University courses of an equivalent standard.

A question was raised regarding a pattern for a general degree after an Honors degree. Professor Walker suggested that this matter might be treated as a special case if and when it occurred.

The motion was carried.

5. Revision of regulations governing number of courses permitted from one Department (Professor D. E. Smith)

It has been found that the regulations governing the number of courses permitted from one Department, which are set out on page 39, paragraph 5 of the 1956-57 Arts and Science calendar, greatly handicap students in the triple Departments. Professor

Smith therefore moved, seconded by Professor Gainer, that the word "department" in this particular regulation be changed to "subject". In the ensuing discussion, the point was brought out that substituting the word "subject" might encourage concentration that would be excessive. Professor Scargill suggested another difficulty which could arise because of the sections into which some subjects could be divided e.g. Language and Literature, Pure and Applied Mathematics. Professor Card suggested that Council accept the revision in principle and review the implications later. The Chairman then suggested that the term "department" be retained and the number of courses that can be taken be increased. Dr. Blackley asked if more authority couldn't be given to the heads of these triple departments. As a result of this discussion, the Chairman appointed a Committee to consider the matter with Professor Greene as Chairman and Professors Smith, Gainer, Glyde and Morrison (Professor Morrison to represent those single departments not directly involved) serving as members. The Committee was asked to report at the December meeting.

6. Recommendations from Departments on New Courses

(a) Modern Languages

NEW COURSES

Professor Greene moved, seconded by Professor von Richthofen, that the following new courses in the Department of Modern Languages be approved:

- (i) French 80. Romance Philology (2-0;2-0)

(Calendar Statment) An outline of the development of Vulgar Latin into Old French and Modern French. The main differences between French and Provençal, Italian and Spanish will be shown in connection with the study of phonology, morphology and syntax in the different stages of the development.

(Explanation) A Division A course for 3rd and 4th year Honors students, to be given in 1957-58, and every second year thereafter, alternating with General Linguistics 105. No new staff or space required, Professor: E. von Richthofen.

- (ii) Romance Literature in English Translation 50 (3-0;3-0)

(Calendar statement) A survey of heroic and courtly epics in France and Spain, Provençal troubador lyrics, Dante, Petrarch, Boccaccio, Ariosto, Cervantes, Lope de Vega, Calderon.

(Explanation) To be given every second year beginning in 1958-59. To be considered, not as a foreign language course, but as a Division A option, open to all interested students, including Modern Language students. This course could be considered to be a revival of one given formerly under the title of "Comparative Literature". This title has not been revived, as the term has come to refer to something rather different. No new staff or space required. Professor: E. von Richthofen.

- (iii) Spanish 1 (5-0;5-0)

(Calendar statement) A first course in the Spanish language.

Note: Students should consult the department before registering in this course (enrolment to be limited to students in Modern Languages pattern and third year Arts and Science students).

(Explanation) The safeguard mentioned in the note is considered by the Department to be absolutely essential for at least the first year this course is given. It is hoped that later it may become possible to offer more than one section, and sequent courses as well. For the first year the course would be given by Professor E. Von Richthofen.

Professor Gainer questioned the principle of limiting the enrolment as outlined in the note attached to the calendar statement for Spanish 1. Professor Greene pointed out that the Department would someday add sequent courses and would need this protection. It was decided that the note should read as stated above rather than as originally suggested: "Students must have the consent of the Department in order to be admitted to this course."

The motion was carried.

CALENDAR CHANGES

It was moved by Professor Greene and seconded by Professor von Richthofen, that the following calendar changes be approved by Council:

- (i) Add "Spanish 1" in the Foreign Languages pattern, p. 41.
- (ii) Add "Spanish", p. 60.
- (iii) French 72. Change prerequisite to: "Two senior French courses".
- (iv) French 101. Delete "and Philology. Origins of the French Language."
- (v) French 102. Delete "Fourth year; French composition".
Substitute: French 103. Seminar in French Composition. (3-0;3-0)

For fourth year Honors and Graduate Students. An intensive training in the preparation and oral presentation of reports in French.

The Department of Modern Languages had originally suggested "French Seminar" as a name for French 103. Council felt that this was not specific enough and the name was therefore changed to "Seminar in French Composition".

The motion was carried.

(b) Chemistry

NEW COURSE

Professor Walker explained to Council that many Chemistry students are taking Chemistry 59, a half-year course, this term, and have arranged to take Chemistry 106 in the second term of the 1956-57 session. However, Chemistry 106 is too heavy a course for most of these students. Professor Walker therefore moved, seconded by Professor Harris, that a less intensive course, Chemistry 57, be authorized by Council to be given commencing January 1957 to which students taking Chemistry 106 could transfer, and that it be brought before General Faculty Council at its next meeting.

Course description:

Chemistry 57. Inorganic Preparations

(1-6;0-0)
or(0-0;1-6)

A study of the methods of preparation of some of the more unusual and difficult inorganic compounds. The lecture will supplement the laboratory work.

Text book: To be announced. Professor: Dr. W. J. Wallace.

The motion was carried.

(c) Zoology

NEW COURSE

Professor Miller moved, seconded by Professor Moore, that Zoology 110 be approved by Council as an Honors and Graduate course, to be offered for the first time in 1956-57. The course description is as follows:

Zoology 110. Principles of Evolution (3-0;0-0)
or(0-0;3-0)

A survey of the mechanisms of evolution; Hardy-Weinberg equilibrium; mutation and selection pressures; genetic drift; introgression; epigenesis; continuous and discontinuous variation and other selected topics.

Prerequisites: Zoology 51, 52; Genetics 51.

The motion was carried.

COURSE CHANGES

It was moved by Professor Miller, seconded by Professor Moore, that the following course changes in the Department of Zoology be approved by Council:

- (i) Zoology 56,57. Change numbers to 106 and place in Honors and Graduate courses.

Zoology 106. Animal Ecology (3-3;3-3)

The principles governing the relationships of animals to their environment and to one another; the fundamentals of fish and wildlife management.

Prerequisites: Zoology 1, 52; Botany 1

- (ii) Zoology 105. Add prerequisites Zoology 51, 52.

The motion was carried.

(d) Political Economy

Professor Gainer explained that the following changes in course outlines were proposed essentially to transfer the topic "Transportation" from Economics 64 to Economics 61, and moved, seconded by Professor Wonders that these changes be approved by Council:

- (1) Economics 61. Canadian Economic Development

The development of the Canadian economy since the seventeenth century, with emphasis given to the period since Confederation. The development of

national policy and problems of transportation receive special attention.

(ii) Economics 64. International Trade

The basis of international trade, gains from trade, the balance of payments, foreign exchange rates; trade and national economic welfare, problems involved in trade, restrictive government policies, post World-War II attempts to broaden trade and investment.

The motion was carried.

(e) Physics

CHANGES IN EXISTING COURSES

It was moved by Professor Grayson-Smith, seconded by Professor Scott, that Council approve the following changes in existing courses in the Department of Physics:

(i) Physics 55a and Physics 55b

Professor Grayson-Smith explained that Physics 55 is to be a laboratory course which was formerly included in Physics 105. The course was recommended to Council as (0-3;0-3) or (0-7;0-7) depending upon the student's program. Mr. Cairns brought up the question of how the Registrar's office could indicate on a transcript how many hours were taken in the laboratory periods. Dr. Blackley's suggestion that students taking three laboratory hours a week be regarded as registered in Physics 55a and those taking seven laboratory hours a week be regarded as registered in Physics 55b was approved by Council.

(ii) Physics 100 to be (3-0;3-0)

Prerequisite: Mathematics 57.

The above two changes, (i) and (ii), are requested so that third and fourth year laboratory work can be adjusted to a student's whole program, rather than being attached to specific lecture courses.

(iii) Physics 104 to read "Quantum Mechanics and Nuclear Physics". (3-0;3-0)

(iv) Physics 105 to read "Solid State Physics and Statistical Mechanics".
(2-0;2-0)

(v) Physics 106 to read "Advanced Course in Theories of the Solid State".
(2-0;2-0)

(vi) Physics 107 to be (2-0;2-0)

(vii) Physics 108. "Advanced Geophysics" to be (2-0;2-0)
(This course was authorized in October for 1956-57.)

Physics 106, 107, 108 were formerly just reading courses. The Department of Physics wishes to see them as lecture courses consisting of two-hour lecture periods a week.

The motion was carried.

NEW COURSES

It was moved by Professor Grayson-Smith, seconded by Professor Scott, that the following new courses be approved by Council:

- (i) Physics 109. Advanced Quantum Mechanics and Quantum Field Theory (2-0;2-0)
- (ii) Physics 110. Advanced Electromagnetic Theory (2-0;2-0)
- (iii) Physics 111. Theoretical Nuclear Physics (2-0;2-0)

Courses 103, 105 to 111, are graduate courses which the Department is prepared to offer when and if required. Not more than three would be given in any one session, and no staff or space problems are involved.

The motion was carried.

(f) Philosophy

COURSE CHANGE

Professor Mardiros moved, seconded by Professor Smith, that the following course change be approved by Council:

Philosophy 55. Philosophy of Religion (3-0;3-0)

A philosophical examination of the fundamental concepts of religious thinking.

Prerequisite: A previous course in philosophy, or consent of the instructor.

Professor Mardiros explained to Council that this change merely involved a shift of Philosophy 55 from the list of Honors and Graduate courses to the list of undergraduate courses.

The motion was carried.

NEW COURSE

Professor Mardiros moved, seconded by Professor Smith, that the following new course be approved by Council:

Philosophy 62. Philosophy of Science (3-0;3-0)

An inquiry into the methods and techniques of science.

Prerequisite: Philosophy 61, or consent of the instructor.

The motion was carried.

(g) Sociology

NEW COURSES

Professor James moved, seconded by Professor Smith, that the following new courses in Sociology be approved by Council:

- (i) Sociology 50. The Human Community (3-0;3-0)

Rural and urban communities: Their institutional structure, ecological factors associated with patterns of growth, community relations, community planning.

Prerequisite: A first course in Sociology.

- (ii) Sociology 55. Criminology and Penology (3-0;3-0)

Theories of criminal behavior, incidence of crime and delinquency, factors associated with criminal behavior, apprehension and trial, theories of punishment, penal and corrective institutions, and rehabilitation programs.

- (iii) Sociology 56. The Family (3-0;3-0)

Structure and function of the family, comparative family systems, sociology of family life stages (such as childhood, adolescence, adulthood, old age), contemporary trends and problems of the family.

- (iv) Sociology 60. Sociology of Group Relations (3-0;3-0)

Analysis of minority groups and social classes in terms of intra-group and inter-group relations, with emphasis on cooperation, conflict, accommodation acculturation and assimilation.

- (v) Sociology 100. History of Sociological Thought (3-0;3-0)

The historical roots of sociology, beginnings of modern sociology, and development of sociological theory.

Prerequisite: Sociology 40 or equivalent.

- (vi) Sociology 101. Theoretical Sociology and Social Research (3-3;3-3)

Contemporary theoretical sociology, with emphasis on developing testable hypotheses and applying social research techniques, such as questionnaires, interviews, attitude scales, sociometric techniques, surveys and experiments.

Prerequisite: Sociology 40 or equivalent.

- (vii) Sociology 103. Small Group Behavior (3-2;3-2)

Analysis of small groups in terms of formal and informal organization, group dynamics, role-playing, problem-solving, etc. Field study and research.

Prerequisite: Sociology 40 or equivalent.

Professor James explained to Council that not all these new course would be offered next year, but that they were set up mainly for the purpose of planning future programs on the understanding that Council had approved them.

The motion was carried.

CHANGES IN COURSE DESCRIPTIONS

Professor James moved, seconded by Professor Card, that the following changes in course descriptions in Sociology be approved by Council:

- (i) Sociology 40. Introductory Sociology (formerly Sociology 1 or 51)
(3-0;3-0)

The sociological study of society, social institutions, group behavior, personality formation and social change.

- (ii) Sociology 51. To Be Deleted.

- (iii) Sociology 53. Social Organization (3-0;3-0)

Theories of social organization, analysis of such forms of social organization as kinship groups, bureaucracy, economic system, science, etc., and their inter-relationship in functioning social systems.

Prerequisite: A first course in Sociology.

- (iv) Sociology 54. Social Problems (3-0;3-0)

The analysis of social and personal disorganization in relation to social change, culture conflict and value systems.

The motion was carried.

NEW PATTERN

Professor Smith moved, seconded by Professor James, that the following new pattern in Sociology be approved by Council:

First year:

Sociology 40

English 2

Psychology 40

A junior option from Division B, or French 2, or Latin 2, or German 2

A science or mathematics course

Physical education

Second year:

Sociology 50 or 53

Psychology 52 or Philosophy 52 or a sociology course

An option from Division A or B

An option from Division B

A science or mathematics course

Third year:

Sociology 53 or 50

A sociology course, or Psychology 52 or Philosophy 52

A senior option from Division B

An option

A science or mathematics course

The motion was carried.

PATTERN CHANGES

Professor Smith explained to Council that the pattern changes proposed by the Department of Philosophy and Psychology were made to add Sociology to the Philosophy and Psychology patterns. He therefore moved, seconded by Professor James, that Council approve the following pattern changes:

Philosophy

Second year: In the second line, add "or Sociology course".

Third year: In the first line, delete "each of Philosophy and Psychology" and substitute "Philosophy, and one in Psychology or Sociology".

Experimental Psychology

First year: Delete second and third lines, and substitute "Two of: a Chemistry course, a Mathematics course, a Physics course".

Second year: In the second line, after "Philosophy" add "or Sociology". Delete the third line. In the fourth line delete "an approved option" and substitute "Two approved options".

Psychology

Second year: In the second line, add "or a Sociology course".

Third year: In the first line, delete "each of Philosophy and Psychology" and substitute "Psychology, and one in Philosophy or Sociology".

The motion was carried.

(h) Mathematics

NEW COURSES

Professor Keeping moved, seconded by Professor Wyman, that the following new graduate courses be approved by Council. They will be given by Professor Wyman and only when the need arises:

(i) Mathematics 115. Calculus of Finite Differences

An introduction to the properties of difference operators with applications to the solution of linear difference equations.

(ii) Mathematics 116. Integral Equations

An introduction to the theory of linear integral equations. Application of the general theory to the integral equations of Abel, Fredholm and Volterra.

The motion was carried.

The Chairman reminded the members of Council that when new courses or course changes are recommended, the department is asked to complete the appropriate forms supplied by the Registrar's office.

7. Announcement on N.R.C. Postdoctorate Fellowships

The Chairman announced that application forms for National Research Council Postdoctorate Fellowships in Canada are available in the Office of the Assistant to the President.

8. Courses proposed by St. Joseph's College

The Chairman explained to Council that St. Joseph's College has proposed to offer three new courses to Roman Catholic students at the University of Alberta. Outlines of these courses were passed to Professor Collins of the Department of History and Professor Davy of the Department of Political Economy, who considered two of the courses i.e. Medieval Political History and the Religious History of England, as duplications of courses already being offered in their departments and raised the question whether two of the proposed courses i.e. Medieval Political Theory and Medieval Education, came within the terms of the University contract with St. Joseph's College, which refers specifically to history and philosophy.

Action on this matter was deferred until the December meeting.

9. Frontier College

The Chairman announced that the Frontier College in Ontario has need of Labourer-teachers to further its work. The purpose of this College is a very good one: the College strives "to bring Adult Education to foreign and Canadian-born campmen". The Chairman asked members of Council to inform graduate students or prospective graduate students of this opportunity.

10. Humanities Research Council of Canada

The Chairman announced the Humanities Research Council is now able to offer a number of pre-doctoral fellowships and post-doctoral grants to scholars in Classics, Orientals, English, French, other modern languages, Philosophy and History. He informed Council how, when, and where applications should be made.

11. "News from Turkey"

The Chairman asked that if any members of Council were interested in receiving a bi-weekly publication called "News from Turkey" would they please inform himself or the Assistant to the President.

12. Colonial Research Fellowships

The Chairman brought to the attention of the members of Council that Colonial Research Fellowships are available until 1960.

13. Memorandum concerning December examinations

The Chairman read a memorandum from the Registrar saying that any departments who wish to have the Registrar's office organize a schedule for consolidate term examinations in December, 1956 would be asked to complete and submit the information forms supplied.

The meeting adjourned at 6:10 p.m.

Walter N. Johns
Dean

Minutes of the 465th meeting of the Council of the Faculty of Arts and Science held on December 3, 1956 at 4:30 p.m. in the Senate Chamber.

Present were: Dean Johns in the Chair; Professors Blackley, Collier, Collins, Crosby, Davis, Duggan, Folinsbee, Goodale, Greene, Harris, Harrold, Hocking, Horton, James, Jones, Keeping, Kreisel, McIntyre, Mackenzie, May, Miller, Morrison, Moser, Ryan, Salter, Scargill, Scott, Smith, Spearman, Stelck, Thomas, Tuba, Von Richthofen, Walker, Whyte, Wonders, Wyman, and the Registrar.

1. Minutes of the previous meeting

It was moved by Professor Tuba, seconded by Professor Thomas, that the minutes of the previous meeting be approved as circulated.

The motion was carried.

2. Revision of regulations governing number of courses permitted from one Department
(Professor E.J.H. Greene)

Professor Greene reported on the proposal of the ad hoc committee which was appointed to revise the wording of paragraph 6, page 39, of the 1956 Arts and Science calendar. He moved, seconded by Professor Smith, the adoption of the following paragraph to replace the existing paragraph 6, page 39:

Normally, not more than two courses may be taken in any one department, or division of a department, in any given year and not more than five courses in any one department, or division thereof, during the three years of the general course. In special cases the Dean may permit a student to take three courses in one department, or division of a department, in the final year, making a total of six courses in the same department or division thereof. (The divisions referred to in this paragraph are those which exist in the Departments of Classical Fine Arts, Modern Languages, Political Economy, and Philosophy and Psychology: for example: Department of Fine Arts, Drama Division.)

The motion was carried.

3. Courses proposed by St. Joseph's College

The Chairman read those parts of the agreement between the University and St. Joseph's College which were pertinent to the question now being considered by Council viz. whether or not to approve three courses which St. Joseph's College proposes to offer to University students. These courses are as follows:

(a) Medieval Political Theory (Introductory)

An outline of the principal political theories from Plato to the reformers of the 16th century. The course includes a study of the City State, the Universal

Community, the Folk and Its Law, the Universitas Hominum of the 12th and 13th centuries, the Conciliar Theory and the National State. This study will be based on the political writings of such thinkers as Plato, Aristotle, Cicero, St. Augustine, John of Salisbury, St. Thomas Aquinas, Dante, Marsilio of Padua and Machiavelli.

(b) The Religious History of England, 1335 - 1539 (Advanced)

This course describes the principal religious movements in England from the projected reform of the monastic orders to the rejection of Papal jurisdiction. Particular attention is paid to the recruitment and training of the clergy, diocesan administration and relations of Church and State. Other topics included are the theological controversies of the period, the Lollard heresy, the Great Schism, the increasing influence upon England of the Italian city states, and the attitude of the episcopate towards the religious and constitutional changes effected by Henry VIII.

(c) Education in the Middle Ages -- Theory and Institutions (Advanced)

The first part of the course consists in the study of some of the more important educational treatises composed between the fourth century and the late fifteenth century. These include the writings of St. John Chrystom, St. Augustine, Alcuin, Hugh of St. Victor, Roger Bacon, Vincent of Beauvais, St. Thomas Aquinas, Jean Gerson, and Vittorino da Feltre.

The second part entails the study of medieval educational institutions, such as the cathedral choir schools, collegiate churches, the chantry schools, monastic almonry schools, hospitals, urban grammar schools, the Friaries and the universities.

The educational movements of the later middle ages will be examined in the light of their social and economic background.

The Chairman stated that the Departments of History and Political Economy had been consulted and that they did not approve of these courses being offered on the grounds that courses in Political Theory and Education were not provided for in the agreement between the College and the University and that the proposed course in History was a duplication of a course already offered in that Department. He added that although only courses in Philosophy and History might be offered by the College, the terms of the agreement might be broadened to include the possibility of offering other courses.

Professor Collins moved, seconded by Professor Mackenzie, that the proposed courses not be accepted by Council. Dr. Blackley supported this motion. He expressed the view that "The Religious History of England, 1335 - 1539" in particular was a highly specialized course suitable only for graduate students and useless unless gone into in detail. He also made the point that the content is covered by courses already offered by the Department of History. Dr. Blackley said that the course "Education in the

Middle Ages" was also very specialized and not appropriate to an undergraduate program. Professor Macenzie, representing the Department of Political Economy, objected to the proposed course in Medieval Political Theory because, apart from being a duplication of a course already offered in the Department (Political Science 63), it was outside the terms of the agreement between the University and the College. Professor Salter asked whether courses in Philosophy offered by the College were not similar to courses given by the University, thus indicating that duplication already existed. Professor Smith said this was, in fact, the case and agreed that "duplication" was therefore not a valid ground for rejecting the proposed courses, but added that if the courses were accepted by the University, they could be regulated by the Faculty as to the level at which they might be given. Professor Keeping asked if political theory might not be included in the category of history, and therefore meet the terms of the agreement. Members of the Departments of History and Political Economy did not believe this to be possible. Professor Thomas believed that the courses were too narrowly specialized for the purpose for which they were proposed. Professor Jones brought up the point that the College rather than the University dictated what Philosophy courses Roman Catholic students should take as options, and expressed the view that if the University accepted the courses under discussion, the same thing might happen in the case of options in History and Political Economy.

The Chairman then read an outline of the academic background of Brother Bonaventure, the instructor who would offer the courses if they were approved. Dr. Blackley stated that he thought Brother Bonaventure's background to be quite good, but wondered how long the University and College could depend upon his remaining here to teach these subjects. The courses would have been approved and perhaps a much less qualified man authorized to teach them in the event Brother Bonaventure left the College.

The motion was then put and carried.

The Chairman asked Council if anyone wished to recommend that the terms of the agreement of affiliation between the University and the College should be broadened.

No motion to this effect was made.

4. New Courses and Course Changes

(a) Department of English

Professor Jones moved, seconded by Professor Salter, that the following amendment in the first year of the B.A. pattern in English be approved:

In the 1956-57 calendar (page 145) the fourth line now reads: "A junior course from Division B". For this it is proposed to substitute: "A second foreign language or a junior course from Division B".

The motion was carried.

(b) Department of Geology

Professor Folinsbee moved, seconded by Professor Stelck, that the following new course in Geology be approved:

Geology 67. Field School. Ten days at the end of Third Year. Department Staff.

To be held at Cranbrook, B.C. following examinations. Topographic and geologic mapping techniques; detailed mapping of the stratigraphy and of the primary and secondary structures of a small highly deformed area. The Geology of the south-eastern cordillera will be illustrated. Some evening study is required.

Professor Folinsbee explained that this course was already being given and has proved very successful. It would be required for the degree of B.Sc. in Geology and will be added to the list of third year courses in the general pattern and also to the Honors program. There will be a final examination in this course. Professor Thomas questioned the numbering of the course since Honors and Graduate courses in Geology usually begin at the number 59. Professor Folinsbee agreed to give some thought to changing the numbering.

The motion was carried.

(c) Department of History

Professor Collins moved, seconded by Professor Thomas, that the following new courses and course changes be approved by Council:

History 72. The History of Sea Power and Diplomacy. To be dropped.

History 60. To be changed to read:

History 60. American History.

(3-0;3-0)

History of the United States to 1865. A discussion of Colonial

Foundations, struggles for independence and self-government, territorial expansion and exonomic growth, sectionalism and nationalism.

History 61. American History (3-0;3-0)

History of the United States since 1865. A study of the growth of industrial civilization, social and political reform, problems of a world power.

History 72. Westward Expansion of the United States. (3-0;3-0)

The expansion of the American people and civilization across the continent, 1600 - 1900. Problems involved in planting civilization in unsettled regions; significance of the frontier in American life.

History 73. American Economic History. (3-0;3-0)

Economic development of the United States, with emphasis on industrialization and its consequences.

It is the intention to have History 61 alternate with History 60 and History 72 with History 73.

Professor Collins explained that History 72 (The History of Sea Power and Diplomacy) was being dropped because it was to have been given by Professor Schurman who is no longer at the University of Alberta. The new courses are being added because the Department of History now has a specialist in the field of American History and is able to broaden the offerings in this field.

The motion was carried.

(d) School of Household Economics

Professor McIntyre moved, seconded by Professor Duggan, that the following calendar changes be approved by Council:

Household Economics 45. Applied Art. To read:

A study of the principles of design and the theory of color. Creative problems including block printing, stencilling, stitchery, and other techniques. Historic styles of architecture and furniture and their relation to modern design. The planning of a contemporary house and its furnishings.

Household Economics 46. Advanced Clothing. To read:

The study of historic and contemporary costume design. The development of the foundation pattern. Flat pattern designing, draping and tailoring for selected garments and construction in appropriate fabrics.

Household Economics 46Su. Advanced Clothing. To read:

The study of historic and contemporary costume design. The development

of the foundation pattern. Flat pattern designing for selected garments and construction in appropriate fabrics.

Prerequisite for Household Economics 46: Household Economics 2 or 12 and Household Economics 45.

Prerequisite for Household Economics 46Su: Household Economics 12.

The motion was carried.

(e) Department of Mathematics

Professor Keeping moved, seconded by Professor Wyman, that the following graduate courses in Mathematics be approved by Council:

Mathematics 117. Conformal mapping. (3-0;3-0)

Geometrical aspects of the theory of a complex variable; mapping of simply and multiply connected domains; univalent functions; the Schwarz lemma; kernel functions; introduction to Riemann surfaces; application to aero- and electrodynamics.

Mathematics 118. Analytic number theory. (3-0;3-0)

Analytic theory of the distribution of primes; the Selberg-Erdos method; distribution of power residues; analytic methods in combinatorial problems and in additive number theory.

Mathematics 119. Topology. (3-0;3-0)

Combinatorial topology of surfaces; mapping and fixed point theorems; covering spaces; homology theory and Betti-groups; connectivity.

Professor Keeping explained that these courses were being added to the Mathematics program to let possible graduate students know what was available to them in the Department.

The motion was carried.

(f) Departments of Mathematics and Physics

Professor Keeping moved, seconded by Professor Wyman, that the following new course in Mathematics be approved by Council:

Mathematics 39. Calculus and Space Geometry. (3-0;2-0)

A half course designed to cover differentiation and integration of trigonometric, exponential and logarithmic functions. Methods and applications of integration. Vectors and space geometry. Simple differential equations. Elements of statistics.

Prerequisite: Mathematics 1 or 5. Text-book: Phillips, Analytic Geometry and Calculus (Wiley)

Note: This course is designed for students in the Geology pattern and in Honors Geology and is co-requisite with Physics 44.

Professor Keeping explained that this course was proposed for Geology students and would be offered along with a new course in Physics (Physics 44). Professor Smith suggested that Mathematics 39, like Physics 44, be described as a half course to avoid confusion on transcripts. After some discussion, Professor Keeping agreed to delete statements in the course description which would describe the course as giving partial credit in itself, and to add the phrase "A half course designed to cover" to the introductory sentence.

The motion was carried.

Professor Scott moved, seconded by Professor Wyman, that Physics 44 be approved by Council as follows:

Physics 44. Electricity and Magnetism. (2-1;1-2)

A half course designed to be taken concurrently with Mathematics 39. Direct current circuits, electrostatics and elementary potential theory, magnetic fields, electromagnetism, alternating currents, introduction to electronics. The lectures will be accompanied by a problem period in the first term, and by a laboratory in the second term.

Co-requisite: Mathematics 39

Prerequisite: Mathematics 1 or 5 and Physics 40 (Physics 41 will be accepted until 1957. After that only Physics 40 will be accepted.)

Remarks: Course will replace, in part, a section of Mathematics 40, and causes no time-table difficulties. It is intended for Geology students only.

The motion was carried.

Professor Folinsbee moved, seconded by Professor Horton, that the results of the two courses be averaged for the student's record. There was a great deal of objection to this motion.

The motion was withdrawn.

5. General Science Pattern

Professor Smith moved, seconded by Professor Scott, that the following proposed general science pattern be approved by Council and that an interdepartmental committee be appointed to administer it:

First Year:

Chemistry 40
Mathematics 1 or 3 or 5
English 2 or 5

Physics 40 or 41
Botany 1 or Zoology 1
Physical Education

Second Year:

One senior course in each of two C Division subjects begun in the first year
 Two approved C Division options
 Special A or B course

Third Year:

A third course in one of the subjects of concentration followed in the
 first and second years
 Two senior C Division options
 An option
 Special A or B course

Professor Smith explained that this pattern was being offered mainly to satisfy students ultimately planning to enter another Faculty such as Medicine or Education. Other students might also elect it. He pointed out that this was not the only solution to the present needs and explained that it would be possible for a student to transfer from this pattern to one of the existing patterns at the end of the first year should he so choose.

The motion was carried.

The Chairman stated that a committee to administer this pattern would be appointed at a later date.

6. Lethbridge Junior College

The Chairman read a letter from Mr. L. H. Bussard of the Lethbridge Junior College Committee asking whether or not the University of Alberta would approve of students without complete matriculations being permitted to enter the College, making up their deficiencies and carrying some University courses as well in the first year. There might be many students in this category and the College is anxious to have a good enrolment in its first year. Professor Smith supported the request by pointing out that this situation would be no different from that existing at the University of British Columbia where students can enter with Junior matriculation, get credit for the High School subjects they lack and take some University courses, then return to Alberta and be given advanced credit for work done at the University level. Professor Jones made the observation that if it is done at Lethbridge students in Edmonton will wish the same privilege. He felt that since the matriculation rule had been established it should be adhered to without exception.

Professor Blackley suggested that these students could attend summer school to clear their deficiencies before entering the College. Professor Smith felt that since the College was not an actual part of the University it should be shown more leniency. Professor Salter was of the opinion that the University would not find pressure upon itself to accept students without complete matriculation. Professor Ryan moved, seconded by Professor Blackley, that Council defer decision in this matter for one year at the end of which time there may be actual cases to cite and experience gained.

The motion was carried.

7. Brussels International Exhibition

The Chairman stated that General Faculty Council wished to know whether the Faculty of Arts and Science would think it feasible to have some of its students attend the Brussels International Exhibition from approximately the end of March, 1958 to the end of October, 1958. The students would apply to the President in the fall of 1957 and would be nominated by him. They must be outstanding students and competent in French and English. Professor Scott moved, seconded by Professor Greene, that Council recommend the scheme as feasible to General Faculty Council. The motion was carried.

8. B.Sc. in Arts in the Faculty of Medicine

The Chairman read a letter from Professor Tuba of the Faculty of Medicine asking that the question of the B.Sc. in Arts in the Faculty of Medicine be put before the Arts and Science Faculty Council. After some discussion, Professor Tuba moved, seconded by Professor Scott, that Council recommend the following to General Faculty Council:

That upon completion of two years in the Faculty of Arts and Science and two years in the faculty of Medicine, a student may be granted the degree of B.Sc. in Arts.

Professor Jones moved, seconded by Professor Thomas, that the following amendment to Professor Tuba's motion be approved by Council:

That this matter be referred to a special committee appointed by the Chair.

The second motion was carried. The Chairman then ruled that this disposed of the first

motion and that the matter would come before the Faculty Council at its February meeting since no meeting was at present planned for January.

The meeting adjourned at 6:30 p.m.

Walter H. Johns.

DEAN

Minutes of the 466th meeting of the Council of the Faculty of Arts and Science held on January 7, 1957 at 4:30 p.m. in the Senate Chamber.

Present were: Dean Johns in the Chair; Professors Bhatia, Blackley, Collier, Collins, Cook, Cormack, Crosby, Davis, Davy, Duggan, Folinsbee, Fostvedt, Gainer, Goodale, Grayson-Smith, Green, Harris, Horton, Jacka, James, Keeping, Lindberg, McIntyre, May, Miller, Moore, Morrison, Moser, Moss, Phibbs, Ryan, Salter, Scott, Smith, Stelck, Thomas, Tuba, Von Richthofen, Walker, Whyte, Wonders, Wyman, and Mr. H. Hawes, Assistant Registrar.

1. Minutes of the previous meeting

The Chairman pointed out to Council two minor errors in the minutes of the previous meeting. On page 2 of the circulated minutes, "Political Science 53" should have read "Political Science 63" and on page 5 "alternation curenents" should have read "alternating currents".

It was moved by Professor Keeping, seconded by Professor May, that the minutes, with these amendments, be approved as circulated. The motion was carried.

2. Appointment of Committee to administer the General Science Pattern

The Chairman suggested to Council that the following be named to the Committee to administer the General Science Pattern: Professors S. G. Davis, Department of Chemistry, J. H. Harrold, Department of Physics, D. R. Crosby, Department of Mathematics, J. H. Whyte, Department of Botany, and J. R. Nursall, Department of Zoology, with Professor Davis as Chairman. Professor Miller moved the approval of these names, and the motion was seconded by Professor Wyman. The motion was carried.

3. Department of Mathematics -- Special course to replace Mathematics 40 for the balance of the 1956-57 session.

The Chairman explained that item 3 was the main reason for the calling of a January meeting of the Council. He then called on Professor Keeping to introduce the topic for discussion.

Professor Keeping stated that only 29% of the group of Geology students taking Mathematics 40 passed the Christmas examination as compared with 68% of the remainder of the class. He said there were nine first class standings which he believed indicated that the examination was not too difficult. He suggested that the Geology students be put in a separate class for the second half of the 1956-57 session only. He believed that easier and more suitable material might enable them to pass the course. The students would be advised to choose this proposed course in the second term but they would be allowed to continue with the second half of Mathematics 40 if they wished. Professor Keeping pointed out that in Mathematics 40 they are now taking more Mathematics than other Geology students have done in the past. The number and name of the proposed course would be "Mathematics 35 -- Space Geometry, Vectors, Elements of Statistics". Professor Keeping pointed out that next year this problem would be met by the two new courses for Geology students. He therefore moved, seconded by Professor Folinsbee, that Council approve this proposed new course, Mathematics 35, for Geology students for the second term of the 1956-57 session.

Professor Scott objected to the idea that if students cannot pass one course they may be allowed to take another which they can pass.

Professor Folinsbee stated that out of eleven Geology students writing the Christmas examination in Mathematics 40, ^{none} ten failed. He felt that Mathematics was the only subject stopping these students from getting their degrees. ^{who are repeating Math 40}

The Chairman asked if there were any expectations of improved results if this course were approved viz. if these students would now have a chance of passing the year's work or not.

Professor Davis observed that in Chemistry 54, the failure group usually comprised mainly Geology students.

Professor Folinsbee stated that Geologists don't require the material in the second term of Mathematics 40.

Professor Morrison felt the question of whether the course was of any use to the students was immaterial. He said it may not be of use right now but would be valuable later on.

Professor Cormack wondered what became of non-Geology students, whether they also were to be given another chance in a new course. ^{Professor Keeping said} Professor Keeping said ^{he didn't} that he didn't think other students should fail. He thought the Geology students should be separated in any case since we were asking too much of them now as far as Mathematics is concerned. ^{he didn't think the failure rate among other students would be excessive}

Professor Salter felt that Mathematics 1 and 5 should be sufficient to prepare these students for Mathematics 40, and that they should have a chance to improve their elementary Algebra before they attempted Mathematics 40.

Professor Bhatia wished to know what the remainder of the course included. He wondered if calculus might be involved, and whether it would be more difficult than the first half of Mathematics 40.

Professor Horton stated that some of the Geology students who failed Mathematics 40 also failed one or more Geology courses. In reply to Professor Bhatia's question, he said that the idea of this new half course was not to make the subject matter simpler for the students, but to make it different so as to better command their interest.

Professor Whyte thought that the reason students fail examinations is that they feel what they are learning is of no use to them, so they do no work. Professor Horton said that for this very reason, the Department of Mathematics was aiming at making the subject matter of the proposed course different, so that these students would not be able to blame their failures on the conviction that the course was of no use to them.

Professor Folinsbee said that because of the Mathematics hurdle, which many of the Geology students couldn't overcome, they had given up and resigned themselves to the idea that they couldn't graduate anyway. Professor Salter asked how their records were in courses other than Geology courses. Professor Folinsbee said that most of them were quite capable of passing other courses and graduating, and that Mathematics 40 was the only barrier.

Professor Moser said that in Mathematics 1 and 5, Education students were ~~doing~~ doing badly. He thought if this course were approved, they might feel entitled to ask the same concession.

Professor Keeping said that the purpose of introducing this new half course

was just to increase the applicability of Mathematics for Geology students and to enable them to take a greater interest in Mathematics. He said that the idea was not to lower the standards.

Professor Wyman felt that the Geology students would not likely be able to pass another course on the same level as Mathematics 40, and suggested that they be given easier work.

The motion was then put and defeated.

Professor Salter suggested that the Department of Mathematics tutor these students, thus giving them some remedial work. Professor Folinsbee observed that this had already been tried, but there were still eleven students who were a year behind.

Professor Miller thought that those who had voted against the motion did not do so because of lack of sympathy, but because of opposition to the principle involved -- that of separating a group and favoring them with special subject matter.

Professor Scott felt that the reason for such a high failure rate in Mathematics 40 among Geology students was that they just did not do any work. He thought that since they were capable of passing other examinations, and since they were given special coaching, they should not be failing Mathematics 40.

4. B.Sc. in Arts on the basis of courses in the Faculty of Medicine -- Progress Repo

The Chairman reminded Council that the members of the Committee set up to consider this question were Professors Tuba, Thompson, Miller, Davis, Smith, the Registrar and himself. He then read a letter of December 13, 1956 from himself to Professor Tuba of the Faculty of Medicine setting out the recommendations of the Committee. Relevant parts of the letter follow:

"The Committee believed the following considerations had a bearing on the proposal:

1. The Faculty of Medicine does not prescribe any specific pattern in Arts and Science for candidates for admission to its Faculty apart from four courses -- one each in Inorganic Chemistry, Organic Chemistry, Physics and Zoology. Candidates for the proposed degree, therefore, may have no consistent program prior to their entrance to the Faculty of Medicine.
2. Students may be admitted to the Faculty of Medicine on the basis of work done in such other Faculties as Agriculture or Pharmacy.
3. Students may be admitted to the Faculty of Medicine on the basis of work done at other universities.
4. The only area of concentration common to all these students lies in the Faculty of Medicine.

In the light of these considerations the Committee felt that two alternatives existed:

- (1) For the Faculty of Medicine to recommend to General Faculty Council for the degree of Bachelor of Science any or all candidates who had successfully completed two years of prescribed work in the Faculty of

Medicine -- i.e. on the basis of the four or more years work done to date. This degree would be regarded as being in the field of Human Biology.

(2) For the Faculty of Arts and Science and the Faculty of Medicine jointly to recommend for the degree of Bachelor of Science those students who had followed a specific Pattern in the Faculty of Arts and Science for two years followed by the successful completion of the first two years of the prescribed program of the Faculty of Medicine. Students from other Faculties or from other universities or students who had not followed a specific Pattern in the Faculty of Arts and Science would not be eligible for this degree.

The Committee agreed to place their second alternative before the Council of the Faculty of Arts and Science at its next meeting scheduled for February 4, 1957. However, they authorized me to present their views to yourself and to Dean Scott at this time in case it was felt that the first alternative should be presented to the Council of the Faculty of Medicine at its meeting scheduled for January 16. I feel sure the Faculty of Arts and Science would not object if the whole problem were solved by the Faculty of Medicine in its own way."

The Chairman stated that this information was made available to the Council as a progress report. Before the next meeting of the Council of the Faculty of Arts and Science, the matter would have been discussed in the Council of the Faculty of Medicine and in General Faculty Council.

5. Matriculation requirements in Mathematics

The Chairman stated that a proposal had been made by the Joint Committee to Co-ordinate University and High School Curricula to the Mathematics Sub-committee of the Curriculum Committee that Mathematics 31 be extended from a three- to a five-credit course, made up exclusively of Trigonometry. The Chairman then said that Dr. Swift, Deputy Minister of Education, was worried that should this proposal be approved, it would mean a complete review of the High School Curriculum in Mathematics. Dr. Swift also wanted to know if the Faculty would approve the proposal that Mathematics be removed from the prescription for the B.A. degree.

Regarding the first proposal, Professor Wyman stated that raising Mathematics 31 to a five-credit course in this way would enable the Department of Mathematics to begin teaching calculus immediately after registration in the fall. Students would be prepared for this after taking the proposed Mathematics 31. Professor Wyman said that he just wanted approval of the proposal by Council so that he could inform the Mathematics Sub-committee. He therefore moved, seconded by Professor Keeping, that this Council endorse the proposal for the extension of Mathematics 31 to five credits, to be made up exclusively of Trigonometry.

Professor Smith suggested that the wording of the motion might be changed somewhat so as to be less specific. Professor Scott said he supported the motion in its present form because it gave Professor Wyman more leeway, and also provided a good starting point for compromise. Professor Wyman also approved of the motion as originally worded.

The motion was carried.

Professor Crosby suggested that something now be done about the performance

standard of matriculation courses. He moved that this Council take action to have the matriculation mark in Mathematics 30 raised to 65% for all. The Chairman explained that steps in this direction were already being taken by other groups, and that it was not really necessary for Council to make a decision on this matter at the present time. The motion was withdrawn.

The Chairman then mentioned again the proposal of Dr. Swift that Arts and Science Faculty Council let him know whether or not they approved of the deletion of Mathematics 30 from the prescription for the B.A. degree or the B.Sc. in Biology. Professor Keeping was not in favor of the proposal because, he said, if students did not have Mathematics 30 upon University entrance, they would be barred from taking any Mathematics in University should they so desire. Professor Salter agreed with Professor Keeping on this matter, and wondered why the Faculty of Education had approved the proposal. The Chairman explained that it was because that Faculty had so many specialized areas where Mathematics of Grade XII was definitely not needed viz. in the area of elementary teaching.

It was therefore moved by Professor Blackley, seconded by Professor Moss, that the Faculty of Arts and Science retain Mathematics 30 as part of the prescription for the B.A. or the B.Sc. in Biology. The motion was carried.

6. New course in Psychology

Professor Smith explained that this new course was being proposed for two main reasons: to provide a Psychology course suitable for students in professional schools, and to relieve the overcrowding in Psychology 40. He therefore moved, seconded by Professor James, that the following new course in Psychology be approved by Council:

Psychology 42. General and Developmental Psychology (3-0;3-0)

A survey of problems, methods and principles in several fields of Psychology with particular emphasis on child, adolescent, and adult development and behavior.

Note: This is an elementary course designed primarily for students in professional schools, such as Nursing and Physical Education, and is not open to students with credit in another introductory course in Psychology.

The motion was carried.

7. St. Joseph's College -- Courses in History to be offered by Brother Bonaventure

The Chairman called on Professor Collins to give a report of a meeting on December 28, 1956 with Brother Bonaventure, who is to teach at St. Joseph's College next year. Professor Collins stated that Brother Bonaventure had proposed two new courses to replace the original three which were proposed earlier but which were not approved when presented to the Council of the Faculty of Arts and Science at their meeting of December 8, 1956. The two new courses, History 3 and History 74, did meet with the approval of the History Department. The course descriptions are as follows:

History 3. English History (3-1s;3-1s)

The history of England from the Anglo-Saxon Invasion to the Church Settlement under Henry VIII, c. 450 to 1540.

This course would comprise a survey of the political, social and religious

institutions of England throughout the Middle Ages. Particular attention would be given to the origin and nature of feudalism, the Benedictine monastic ideal, and diocesan administration; the origin and development of urban centres, the work of the Friars, and the influence of the schools and universities; the development of canon law, English common law, and the English Constitution.

Text: Pelican History of England (3 volumes)

Whitelock, Dorothy: The Beginnings of English Society

Stenton, Doris: English Society in the Early Middle Ages

Myers, A. R.: England in the Late Middle Ages

History 74. European History

(3-0;3-0)

The history of Europe from the First Crusade to the Residence of the Popes at Avignon, 1095 to 1305.

This course would be a study of two centuries of European civilisation as reflected in the political development of the Papacy, Empire and the feudal monarchies; in the origin and growth of the Italian and Flemish cities; in the revival of culture in western Europe promoted by the cathedral schools and universities; the Crusades and the impact on western Europe of Eastern culture; the significance of Cistercian monasticism and the missionary efforts of the Friars; the development of Roman and canon law.

Text: To be decided upon later.

Professor Collins explained that these courses were to be offered as junior and senior options in the Faculty of Arts and Science for Roman Catholic students. He then moved, seconded by Professor Blackley, that Council approve History 3 and History 74. The motion was carried.

8. New course in Chemistry

Professor Walker wished Council to approve a new course in Chemistry, Chemistry 114 (Theoretical Organic Chemistry), to be offered to Honors and Graduate students. The course would be given by Professor Crawford, and its description is as follows:

Chemistry 114. Theoretical Organic Chemistry

(0-0;3-0)

The application^s of current theories to various classifications of reactions are considered. Hammett's correlation of reaction rates, stereochemistry, kinetics, resonance and factors important to the course of a reaction are discussed.

Text: "Physical Organic Chemistry", J. Hine

References: Newman, "Steric Effects in Organic Chemistry", Ingold, "Structure and Mechanism in Organic Chemistry", Klyne, "Progress in Stereochemistry".

Prerequisite: Chemistry 102

Professor Walker then moved, seconded by Professor Harris, that Council approve Chemistry 114. The motion was carried.

9. Change in List II for B.Sc. patterns -- adding Sociology 40, 54, 55, 56.

Professor Smith moved, seconded by Professor James, that List II for B.Sc. patterns be amended to include Sociology 40, 54, 55, and 56. The motion was carried.

10. Notice of motion re Honors Physiology Program

The Chairman announced the proposal of an Honors Program in Physiology somewhat similar to that in Biochemistry. He said that this proposal would first be considered by the Honors Committee before it was brought before this Council.

The meeting adjourned at 5:50 p.m.

Walter H. Johns.

DEAN

Minutes of the 467th meeting of the Council of the Faculty of Arts and Science held on Monday, February 4, 1957 in Room 142 of the Arts Building.

The following members of Council were present: Dean Johns in the Chair; Professors Blackley, Brown, Collier, Collins, Cook, Cormack, Crosby, Davis, Davy, Folinsbee, Fostvedt, Gainer, Gowan, Grayson-Smith, Greene, Hardy, Harris, Harrold, Horton, Jacka, James, Jones, Keeping, Kreisel, McIntyre, Mardiros, Miller, Morrison, Moser, Phibbs, Peacock, Ryan, Salter, Samuel, Scott, Smith, Spearman, Stelck, Thomas, Von Richthofen, Whyte, Wonders, Wyman, and the Registrar. President Stewart joined the meeting at 5:40 p.m. Other members of the Faculty of Arts and Science were present by invitation.

1. Minutes of the meeting of January 7, 1957

Three errors in the minutes of the meeting of January 7, 1957 were brought to Council's attention. The third last paragraph on page 1 of the circulated minutes should have begun: "Professor Folinsbee stated that out of nine Geology students who were repeating Mathematics 40, eight failed the Christmas examination." Professor Keeping asked to have the following amended statement recorded on page 2, paragraph 3: "Professor Keeping said that he didn't think the failure rate among other students would be excessive." On page 5, under the heading Chemistry 114, the word "application" should have read "applications".

It was moved by Professor Brown, seconded by Professor Davis, that the minutes, with these amendments, be approved as circulated. The motion was carried.

2. Change in description of Geology 57

Professor Folinsbee moved, seconded by Professor Stelck, that the course Geology 57 be given the following new course description:

Geology 57. Structural Geology. (3-3;3-3)

H.A.K. Charlesworth

Introduction to structural geology; primary structures; non-orogenic structures;

mechanical principles involved in the deformation of rocks; description, mechanics and mapping of folds, faults, joints and secondary foliation; mechanics of intrusion; regional structural geology of the earth's crust; structural interpretation of aerial photographs; problems.

Textbook: Billings "Structural Geology".

Prerequisites: Geology 1 and 51.

The motion was carried.

3. Calendar changes (Department of English)

Professor Jones moved, seconded by Professor Kreisel, that the following calendar changes in English be approved by Council:

- (a) English 69 to be called Literature of the English Renaissance.
- (b) English 64 to be called Early Twentieth Century.
- (c) English 51 to be called English Literature of the North American Continent

with the following description:

American literature, with special attention to writers who have made original contributions to English literature generally. A brief survey of Canadian literature will conclude the course.

Professor Jones stated that the first two changes were passed in a recent meeting of the Department of English, but that the last change had been made since that meeting, and he wished it to be approved by Council along with the others if there were no objections from the Department.

The motion was carried.

4. Course changes (Department of History)

Professor Collins moved, seconded by Professor Thomas, that the following course changes in History be approved by Council:

- (a) History 75. Canadian History (3-0;3-0)

The History of Canada to 1854.

- (b) History 76. Canadian History (3-0;3-0)

The History of Canada since 1854.

Professor Collins explained that these courses are a continuation of History 58

in a more detailed form. He said, however, that History 58 was still to be retained in the Calendar for the Calgary Branch and also for Summer Session. The question of what pre-Law students in the Faculty of Arts and Science would take if History 58 were not offered was raised. Professor Thomas thought that if these students took History 8 and History 76, this would be sufficient to prepare them for the Faculty of Law.

The Chairman asked Professor Thomas if 1840 had been considered as a date at which to separate the above two courses. Professor Thomas said he was satisfied with the date 1854 as the conclusion of History 75, but that History 76 would probably review the material from 1840.

The motion was carried.

5. Honors Program in Physiology

The Chairman explained that this program had been studied carefully by the Department of Physiology and the Committee on Honors, and had subsequently been passed by General Faculty Council, subject to the approval of the Council of the Faculty of Arts and Science. The Chairman then read the prescription for the Honors Physiology Pattern.

It was moved by Professor Collier, seconded by Professor Scott, that this program be approved by Council:

FIRST YEAR

Chem. 40	Inorganic Chemistry	(3-3;3-3)
Physics 1, 40 or 41	General Physics	(3-2;3-2)
Zoology 1	General Zoology	(3-3;3-3)
Math. 1 or 5	General Mathematics	(5-0;5-0)
English 2 or 5	English Literature or Composition	(3-0;3-0)
Phys. Ed.		

26 hrs. 26 hrs.

SECOND YEAR

Chem. 42	Organic Chemistry	(3-3;3-3)
Chem. 54	Physical Chemistry	(3-3;3-3)
Physiol. 61	Elementary Physiology	(3-3;3-0)

February 4, 1957

Zoology 51
A language

Comparative Anatomy of the Chordates (3-3;3-3)
(A modern language is required,
German 1B is suggested) (3-0;3-0)

27 hrs. 24 hrs.

THIRD YEAR

Physiol. 11	Physiology (Medical)	(4-6;2-3)
Biochemistry 50	General Biochemistry	(3-3;3-3)
Physiol. 104	Advanced Course - Endocrinology	(0-0;3-0)
Physiol. 62	Neurophysiology	(0-0;2-3)
Physiol. 200	Seminar	(0-0;1s-0)
One A or B course	(Humanities or Social Science Option)	(3-0;3-0)
One Option	(Science Option)	(3-3;3-3) Usually

25-31 hrs. 24-30 hrs.

The recommended options will be:

Zoology 105	Histological Techniques and Comparative Histology
Physics 43 or 46	(Light), Magnetism and Electricity.

FOURTH YEAR

Any one of:		
Physiol. 101		(3-0;0-0)
Physiol. 102		(0-3;0-3)
Physiol. 103	Nerve Impulse and Synaptic Transmission	(3-0;0-0)
Any one of:		
Biochem. 101		(3-3;0-0)
Biochem. 102		(0-0;3-3)
Biochem. 103		(0-0; 3-0)
Biochem. 104		(0-0;3-0)
Physiol. 105	Advanced Physiological Techniques	(2-6;0-0)
Physiol. 106	Tutorial and Reading Course	(1-3;1-3)
Physiol. 200	Seminar	(0-0;1s-0)
Prev. Med. 21	Medical Statistics	(0-0;1-0)
One Option	(Science Option)	(3-3;3-3) Usually

18-24 hrs. 17-23 hrs.

The recommended options will be:

Math. 3
Bacteriology 60
Botany 52
Pharmacology 22.

Professor Morrison asked if Physiology was a department of the Faculty of Arts and Science. The Chairman said that it was not, but that this program was being introduced in this Council on the same basis as the program in Biochemistry.

Professor Cormack felt that since the study of antibiotics was important

February 4, 1957

in Physiology, a Botany course should be prescribed for this program. The Chairman said that a Botany course (Botany 52) would definitely be recommended, and asked Professor Cormack if he thought this might be adequate. Professor Cormack replied in the affirmative.

Professor Horton asked which Physics course was prescribed. The Chairman replied that students in this program could take Physics 1, 40 or 41. He said also that they could take Physics 41 only or take Physics 40 in the first year and Physics 43 later.

Professor Smith observed that Physiology 62, prescribed for the third year of this program, had two prerequisites: Physiology 61 and Neuroanatomy. He hoped that approval of the Honors Physiology program would mean readjustment of the prerequisites for Physiology 62.

Professor Cormack wondered what students who had completed this program would do upon graduating. The Chairman stated that most of them would go on to a program of research and teaching.

The motion was carried.

Professor Collier then suggested that, since the Council of the Faculty of Arts and Science had approved this program, a representative from the Department of Physiology might be appointed to the Council. The Chairman concurred with this suggestion.

6. Request from the Registrar's Office

The Chairman stated that each year the Registrar's office has a great deal of difficulty ascertaining correct names and addresses of graduating students. The office was therefore requesting that each class be asked to check the list outside the Registrar's office to make sure their names, addresses and other relevant facts are correct.

7. Final examination in Chemistry 103

Professor Morrison stated that he would be going to London, England during

February 4, 1957

the month of April and would not return until the end of that month. He therefore wished to have his final examination in Chemistry 103 written on Saturday, March 30, 1957 so that he could have the results handed in by the following Monday. Professor Morrison moved, seconded by Professor Harris, that Council give its approval for the making of these arrangements.

The Registrar saw no objections to the above arrangements being made so long as the class itself was notified.

The motion was carried.

8. Motion to adjourn to Committee of the Whole

Professor Wyman moved, seconded by Professor Whyte, that Council adjourn to Committee of the Whole. The motion was carried, and the formal part of the meeting ended at 4:55 p.m.

Walter N. John

DEAN

Minutes of the 468th meeting of the Council of the Faculty of Arts and Science held on Monday, April 1, 1957 at 4:30 p.m. in the Senate Chamber.

Present were: Dean Johns in the Chair; Professors Bhatia, Blackley, Collins, Cormack, Crighton, Crosby, Davis, Davy, Duggan, Elder, Folinsbee, Garland, Godfrey, Grayson-Smith, Greene, Harris, Harrold, Horton, Jacka, Jones, Keeping, Kreisel, McIntyre, Mardiros, May, Miller, Peacock, Phibbs, Ryan, Salter, Samuel, Scott, Smith, Stelck, Thomas, Trainor, Von Richthofen, Walker, Whyte, Wonders, Wyman, Professor V. E. Graham, Assistant to the Director, University of Alberta in Calgary, and the Registrar.

The Chairman welcomed the new ex-officio members of Council: Associate Professors A. B. Crighton, A. T. Elder, W. Watson, D. R. Godfrey, L.E.H. Trainor, and G. D. Garland. He also expressed Council's pleasure in having Dr. V. E. Graham, Assistant to the Director, University of Alberta in Calgary, present, and said that Dr. Graham was here to take part in the discussion of a possible second year B.A. program for Calgary.

1. Minutes of the meeting of February 4, 1957

The Chairman reviewed the minutes of the meeting of February 4, 1957 by reading aloud the main topics of discussion. It was moved by Professor Wyman, seconded by Professor May, that the minutes be approved as circulated. The motion was carried.

2. Course changes -- Department of Physics

The Chairman stated that the following course changes in Physics had been approved by General Faculty Council subject to approval by the Council of the Faculty of Arts and Science:

- (1) Change the title of Physics 101 to read "Thermodynamics and Kinetic Theory". (No change in content).

(2) Delete Physics 101a.

(3) Insert the following description of Physics 104:

"104. Quantum Mechanics and Nuclear Physics

Introduction to quantum mechanics; survey of modern experimental and theoretical nuclear physics.

Prerequisites: Physics 54 and Mathematics 57."

Professor Grayson-Smith moved, seconded by Professor Scott, that these courses be approved by Council. The motion was carried.

3. Application for transfer to B.A.,LL.B. from K. J. Rootes

The Chairman stated that Mr. Rootes was an older student, a war veteran who was hospitalized for some time after the second World War. He entered the University of Alberta in September of 1955 with two matriculation deficiencies, Mathematics 30 and French 30, with a view to preparing for Law. He had since cleared these deficiencies and made a second class average in courses taken in the 1955-56 Session. Mr. Rootes was now deficient one course for admission to the Faculty of Law, and was requesting that he be permitted to transfer to the combined program in September of 1957, providing he completed the one course he lacked in the 1957 Summer Session. The granting of this permission was strongly recommended by both Dr. A. J. Cook, Director, Student Advisory Services, and Dean Bowker, Faculty of Law.

It was moved by Professor Blackley, seconded by Professor Thomas, that Mr. Rootes be allowed to transfer to the combined program of B.A. and LL.B., providing he satisfactorily completed the spring final examinations and the one summer session course. The motion was carried.

4. Application re deferred examinations -- Peter Schroeder

The Chairman stated that Mr. Schroeder was applying for two deferred final examinations, one in Physics 41 and one in Philosophy 40, for the following reasons: He is associated with the Christian Training Institute and is to play an important part in their Chorister Tour, to take place from April 18 to 28, 1957. His Physics

examination falls on April 24 and the Philosophy on April 26, and Mr. Schroeder wishes to be excused from writing these at the regular time and to write them sometime early in May. The Chairman said that the Tour meant a great deal not only to Mr. Schroeder but to the Christian Training Institute as well. Letters in support of Mr. Schroeder's request had been received from Reverend Edward B. Link, Director, C.T.I. Music Department, and Reverend E. P. Wahl, President of the C.T.I.

A discussion followed this introduction to Mr. Schroeder's request.

Professor Jones inquired whether this student would be graduating this spring. The Chairman replied in the negative and stated that his record was rather mediocre. Professor Jones then wondered if Mr. Schroeder could write the supplemental examinations in the fall as deferred finals, rather than special deferred finals in May.

Professor Salter moved, seconded by Professor Cormack, that Mr. Schroeder be allowed to write his final examinations in Physics 41 and Philosophy 40 at the time of the fall supplementals but not in May as requested.

Mr. Cairns suggested that this motion be approved with the stipulation that Mr. Schroeder must make good marks in his other three spring examinations.

Professor Greene was of the opinion that this was not a good precedent to set. He thought this action would bring about many such requests. The Chairman expressed the view that this was a special case which would not likely occur again.

The motion was carried.

5. Second year B.A. program for Calgary

The Chairman stated at the outset that a decision regarding a second year B.A. program in Calgary was not within the jurisdiction of this Council but that any views Council had on the matter would weigh heavily in the final decision. He said there would be two additional full-time staff members at the University of Alberta in Calgary beginning this fall: Professor A. D. Winspear, who would teach Latin 2, Philosophy 40, and another course, probably a senior course in Classics in English, and Professor F. R. Anton, who would teach Geography 1, Economics 1, and probably Economics 65. At the present time, Professor Guy offers a senior

English course, and Professor Self a senior History course. This would make a second year B.A. program in Calgary possible, providing the third year were taken in Edmonton. The program would probably be confined to the History and English patterns. If this program were approved, the Faculty of Education might be able to offer the third year of the B.Ed. program.

Professor Graham observed that if students wanting to complete the second year of the B.A. program enrolled in the day session, they might possibly take one or two evening courses, since a senior History and a senior English could be offered at that time. He stated that this program would create no new space problems, and the number of students it would involve would be about ten only. He felt that this was actually a very minor part of the progress which is inevitably being made at the University of Alberta in Calgary.

The Chairman felt that this was merely a step in the natural growth of the University of Alberta in Calgary.

When questioned about the number of students who would be taking the third year of the B.Ed. program, Professor Graham replied the number would not likely exceed fifteen, and they would be mostly Industrial Arts majors.

Professor Smith thought we might approve this program with reservations. He felt permission to take the second year B.A. program in Calgary should be granted only to students with a great need: for example, a financial need. He said that if permission was granted to just anyone, there would be a number of students with greatly limited programs; there would not be a wide enough choice of the many options required in a normal Arts pattern.

Professor Salter stated that he had no objections to the growth of the University of Alberta in Calgary but that improvement there should be preceded by improvement in the Library. He observed that there were not enough facilities in the Library and that there was not even much of a grant for the purpose of providing more facilities. The Chairman thought that if the programs were approved the instructors would then apply for a block of books in each of the new courses offered.

Professor Thomas stated that he was disturbed about the fact that all major courses in the student's chosen pattern might be offered by the same instructor. The Chairman said that one senior course in the field of specialization might be taken during the second year in Calgary along with the options, leaving the three of the major subjects for the third year in Edmonton.

Professor Greene agreed with Professor Salter regarding the problem of library facilities, but recalled that the stocks of books in French for the Calgary Branch were bought with senior courses in mind.

Professor Smith wondered who would be responsible for approving the individual programs of the second year B.A. students in Calgary. The Chairman thought that they might fill out a tentative course selection form which would be scrutinized in Calgary, and then referred to the head of the appropriate department in Edmonton for approval.

Professor Jones felt that the topic under discussion was not such a startling question, and that such a development was inevitable. He likened the present University of Alberta in Calgary to the University of Alberta in Edmonton in its early years. He thought approval of this program would strengthen our position for asking for more teachers in Calgary, and this in turn would help the University of Alberta in Calgary to expand.

The Chairman then called for a motion. It was moved by Professor Collins, seconded by Professor Jones, that this Council approve the principle of permitting students to register in the second year of a B.A. program in the University of Alberta in Calgary, beginning September, 1957, providing each tentative course selection form was approved by the appropriate person in the University at Edmonton.

Professor Smith said that he could now support the motion. Professor Graham also approved of the motion and further mentioned that he thought the library problem would not be too great, since there were no grants given until the new courses were introduced, in any case. He also thought the numbers would not be great because most students would want to come to Edmonton rather than stay in Calgary.

April 1 , 1957

Professor Davy wished to know exactly what the implications were in this matter for the Faculty of Education. The Chairman stated that if the Arts and Science program were approved, there would be enough courses to compose a third year of a B.Ed. program, and students would request that they be allowed to take the third year in Calgary. Professor Davy then asked how many students this would involve. Professor Graham replied that he thought there would not be more than eight or ten. He said, also, that the Faculty of Education could offer the third year of the B.Ed. program in Calgary if someone could be found to teach Education 376.

Professor Jones said he wished to make two points: one, that the course in Children's Literature should not be taken for credit towards a B.A. program, and two, that the English instructors in Calgary should not be under pressure to offer another senior English course (for example, in the evening) if this would overload their programs.

The motion was carried.

6. Graduate program in English

Professor Jones introduced the graduate program in English by saying that the Department of English had always had a graduate program, and the requirements for it had been set out in the calendar of the School of Graduate Studies, but that the Department of English now thought they should be more specific about the graduate courses they were prepared to offer. Professor Jones stated that no new staff would be required for the Department of English at the moment. He moved, seconded by Professor Ryan, that the following graduate courses in English be approved by Council:

- | | |
|---|-----------|
| 140. <u>Conference Course</u> (English 140 offers guidance in special reading courses in any field of English Literature. It is designed to fill in background studies for theses.) | (3-0;3-0) |
| 141. <u>Bibliography and Methods of Research</u> | (1-0;1-0) |
| 142. <u>Literary Criticism</u> (Principles and History) | (3-0;3-0) |

April 1, 1957

143. Study of Language (A synthesis of various approaches to the nature and use of language - historical, synchronic, comparative, philosophical, aesthetic) (2-0;2-0)
144. Advanced Course in Writing (3-0;3-0)
150. Old Norse and Germanic Philology (3-0;3-0)
151. Old English (3-0;3-0)
152. Chaucer and his Contemporaries (3-0;3-0)
153. The Scottish Chaucerians and English Literature of the Fifteenth Century (3-0;3-0)
154. Mediaeval Drama (3-0;3-0)
160. Spenser and Donne (3-0;3-0)
161. Shakespeare and his Contemporaries (3-0;3-0)
162. Early Seventeenth Century Poetry and Prose (3-0;3-0)
163. Milton (3-0;3-0)
171. Eighteenth Century Prose (3-0;3-0)
180. Wordsworth and Coleridge (3-0;3-0)
181. Nineteenth Century Thought (3-0;3-0)
190. Studies in the Modern Novel (3-0;3-0)
192. Poetry in English since 1939 (3-0;3-0)

The motion was carried.

Dr. Walker said he thought this program should now be passed to General Faculty Council for approval.

7. Special Case -- Melvin G. Rude

The Chairman stated that Mr. Rude was a second year student in the B.A., Drama pattern, who is at present in very poor health. His condition is a mental one, not yet diagnosed, and is causing him great anxiety about his final examinations. Professor Peacock moved that this student be allowed to write two of the five courses he is taking this year at the regular time: viz. English 53 and Biology 41, and be

given aegrotat standing in the remaining three: Drama 40, 51 and 53.

Professor Jones wondered whether it was not normal to grant aegrotat standing only to graduating students, and whether, in this case, the student's examinations should merely be postponed until the fall. The Chairman said that the main work in the Drama courses had been done, and if the student found it impossible to write the examinations, the omission would not be as serious as it might be in other courses. The Chairman also said that part of this student's condition was anxiety, and the pressure would be removed if he could know he would be given aegrotat standing in the three Drama courses. This had been strongly recommended by the psychiatrist attending Mr. Rude.

Professor Salter stated that Mr. Rude was in one of his classes in the current year, and it was his impression that this student was involved in too many extracurricular activities. Professor Peacock said the Drama Division had purposely tried to limit these activities this year, since he had had too many last year. In reply to Professor Kreisel's question of what extracurricular work Mr. Rude was involved in, Professor Peacock said he was doing nothing that wasn't part of his class work.

Professor Salter asked why the student could not write deferred finals. The Chairman replied that this would not solve the problem of the boy's anxiety neurosis.

Professor Salter wondered whether the psychiatrist knew that deferred finals were possible. The Chairman replied that he believed the psychiatrist to be fully acquainted with the University's examination procedures, and that he had recommended specifically that aegrotat standing be granted.

Professor Crosby requested that Mr. Rude's first year marks be read again. They were as follows: English 2, 62; French 2, 62; History 10, 59; Education 136, 71; Physics 41, 74. Professor Crosby then said he thought this student was well worth Council's consideration.

Professor Bhatia wondered whether Mr. Rude's condition was brought about by the pressure of academic work or by other circumstances. The Chairman replied that other circumstances were involved.

Professor Scott thought that this Council should know more about the nature of the student's anxiety, but that Council should also recognize the advice of an expert in the matter and take this advice. Professor Scott therefore seconded Professor Peacock's motion.

Professor Wonders said he thought Council should consider the fact that the student was willing to write his two doubtful courses and asking not to write courses in which the instructor thought he had done, and could do, well.

Professor Blackley wondered whether Council could simply allow Professor Peacock to give this student marks in the three Drama courses.

Mr. Cairns reviewed the purpose of aegrotat standing. He said that deferred final examinations were the first solution to look to, but where the student was absolutely unable to write even these, aegrotat standing was then granted as a form of protection for the student.

Professor Salter stated he would be in favor of the motion, but that he wished to be sure the psychiatrist had considered the possibility of deferred finals.

The Chairman suggested that the motion be approved subject to a suggestion to the psychiatrist that if deferred finals were acceptable, that would be the course to follow in this case.

Professor Miller moved an amendment to the motion, which was that instead of aegrotat standing, the student be given marks assigned by the instructor on the basis of his year's work. This motion was seconded by Professor Blackley.

Professor Scott asked what these marks would be. The Chairman thought this was not Council's concern. Professor Graham felt they would have to be passing marks to relieve the student's tension, and that the student should be informed of this.

Mr. Cairns inquired whether there was a precedent for this case. The

April 1, 1957

Chairman replied that, so far as he knew, there was not. He said there was more consideration and care given to students at present than previously.

The amendment to the motion was carried. This disposed of the original motion.

8. Discussion of resolution of the Department of English regarding the offering of senior English courses in outlying centres

Professor Jones stated that the Department of English wished to record the following resolution:

"The Department of English questions the wisdom of offering senior English courses in outlying centres."

Professor Jones said the Department wished to know how Council as a whole felt about this matter. He said the reluctance of the Department of English to approve of this principle was based mainly on two factors: one, the lack of qualified instructors who could measure up to the quality of instructor at the University, and two, the lack of adequate library facilities.

Professor Ryan said he thought two major objections to this policy were, first, if one or two courses were offered to begin with, there would be a demand for too many more, and second, where courses were offered on a weekend, it would not be fair to ~~the instructors at~~ the University who might be teaching them, since they would be required to travel to these centres after their regular weekly obligations.

The Chairman said that the University of Saskatchewan offered correspondence courses which the University of Alberta recognized, but only for junior credit. He said it was felt at this University that the classroom provided an opportunity for personal contact which would not be possible in the case of correspondence courses.

Professor Jones then moved, seconded by Professor Ryan, that this Council agree with the resolution put forward by the Department of English, "That the Department of English questions the wisdom of offering senior English courses in outlying centres."

Professor Blackley moved an amendment to this motion, suggesting the reference to senior English courses in particular be omitted and that the motion now read, "That this Council questions the wisdom of offering senior courses in outlying centres." Professor Salter thought the word "deplores" could be satisfactorily substituted for the words "questions the wisdom of". These changes met with the approval of Professor Jones, who had proposed the original motion, and the amended motion now read, "That this Council deplores the offering of senior courses in outlying centres."

The motion was carried.

The Chairman said the May meeting of Council would be held on Wednesday, May 8, 1957, at 2:00 p.m.

The meeting adjourned at 6:05 p.m.

Walter H. Johns.

DEAN

May 8, 1957

Minutes of the 469th meeting of the Council of the Faculty of Arts and Science held on Wednesday, May 8, 1957 at 2:00 p.m. in the Senate Chamber.

Present were: Dean Johns in the Chair; Professors Bhatia, Blackley, Card, Collier, Collins, Cook, Cormack, Crosby, Davis, Davy, Duggan, Elder, Folinsbee, Fostvedt, Gainer, Garland, Glyde, Godfrey, Goodale, Grayson-Smith, Greene, Hardy, Harris, Harrold, Hocking, Horton, Jacka, James, Jones, Keeping, Kreisel, Lindberg, McIntyre, Mackenzie, Mardiros, May, Miller, Moser, Moss, Mueller, Phibbs, Ryan, Salter, Scott, Smith, Stelck, Stuart, Taylor, Thomas, Trainor, Tuba, Von Richthofen, Walker, Watson, Whyte, Wonders, the Registrar and the Assistant to the Registrar.

1. Minutes of the meeting of April 1, 1957

Professor Ryan asked to have some of the wording in paragraph 3 under item 8 changed. The point he had made was that the offering of senior courses in outlying centres would be unfair to the University itself.

It was moved by Professor Ryan, seconded by Professor Scott, that the minutes, with this amendment, be approved as circulated. The motion was carried.

2. Business arising out of the minutes

The Chairman reported that Mr. Kenneth Rootes, a second year B.A. student who had applied for admission to the combined program of B.A. and LL.B., had passed all six of his final examinations and had obtained second class standing in two of them, giving him an average of 61%.

The Chairman also reported that Mr. Peter Schroeder, who had applied for deferred finals in two subjects so that he could participate in a tour of the Christian Training Institute, had written all his final examinations at the regular time in the spring and had passed them all.

3. Report of the Committee on Honors re Graduands (Professor D. E. Smith)

Professor Smith moved, seconded by Professor Walker, that Council adopt

May 8, 1957

the following report of the Honors Committee:

Recommended for the Governor General's Gold Medal:

Atkinson, Joseph George

Recommended for First Class Honors:

Atkinson, Joseph George	Chemistry
Bamber, Edward Wyane	Geology
Campbell, John Douglas	English
Hess, Fritz Karl	Chemistry
Klcovansky, John Edward	Geology
McCalla, Dennis Robert	Chemistry
Panar, Manuel	Chemistry
Richmond, William Oliver	Geology
Riddell, James	Mathematics
Smith, Russell George	Chemistry
Soboren, Josephine	Chemistry
Staples, Mildred Ivy	Latin and French
Stover, Diane Eleanor	Chemistry
Taylor, Allan Levore	Physics

Honors:

Boag, David Archibald	Conservation Biology
Fuller, Norma Jean Mildred	French and English
Kehoe, Theresa Marie	Psychology
Kelley, Sheila Margaret	Psychology
Langstroth, George Forbes Otty	Physics
McGuire, Catherine	Psychology
Nichols, Francis Alvin	Psychology
Pedersen, Steven Alan	English
Powell, Grace Lillian	Political Science
Renne, Thomas	Physics
Scraba, Evangeline Frances	Psychology

The motion was carried.

4. Report of the Revisions Committee (Associate Professor F. D. Blackley)

Before moving that the recommendations of the Revisions Committee be accepted by Council, Professor Blackley stated that there were three cases on the list which might need explanation.

Mr. Frank Klassen had taken enough courses during his career at the University to qualify for two degrees: the B.A. and the B.Sc. in Arts. His record had been checked by the Dean, Professor Smith and Professor Blackley, and it was quite certain that Mr. Klassen had completed the requirements for both the B.A. and the B.Sc.

Mr. Gregory Mursky had completed thirteen courses towards the B.A. in Modern Languages when he left the University of Alberta in 1953. He subsequently obtained the B.A. in Honors Geology from the University of British Columbia and, by the rule of the requirements for the B.A. after B.Sc. and B.Sc. after B.A., Mr. Mursky was now eligible for the B.A. degree from the University of Alberta. He had completed nine and more courses, had followed the pattern of his choice, and had obtained the necessary second class standings. Professor Greene concurred in this decision.

Miss Mary K. Smith was being recommended for the B.A. on the basis of acceptance by the Revisions Committee of the second class standing she obtained in Philosophy 54 after repeating it, and completion of the course, Latin 2. Miss Smith had taken Philosophy 54 in the Faculty of Education and had not obtained a second class standing in the course. She then repeated this course in the 1952-53 Evening Division, Arts and Science, obtaining a second class standing. Though she couldn't obtain credit for the course, the Revisions Committee ruled that she could claim the second class standing.

Professor Blackley then moved, seconded by Professor Harris, that the following students be recommended to General Faculty Council for their degrees:

Recommended for the Lieutenant Governor's Gold Medals:

B.A.:

McCue, Robert Junior

B.Sc.:

Patton, June Lillian

Recommended for the degree of Bachelor of Arts:

Angle, Leroy Albert
Beddome, Barbara Ann
Bell, Patricia Anne
Bertles, Hugh Brian
Bording, Tove Margrethe
Buckley, Marjorie White
Cairns, Gordon Barker
Campbell, Florence Margaret

Campbell, John Douglas - First Class Honors
in English
Christenson, Raymond Andrew
Coady, Patricia Anne
Collver, Richard Lee
Deverell, Katherine Jean
Dubas, Helen Ann
Dutka, Josephine Anna

Edwards, David Richard
 Enright, James Edward
 Fairbairn, Marilyn Cecile
 Fandrich, Eugene
 Ferguson, Eleanor Ethel
 Fletcher, Roy Jackson
 Flint, Mary-Ellen Janet
 Franklin, Douglas Ronald
 Fuller, Norma Jean - Honors in French
 and English
 Gallant, Tellex William
 Gish, Norman Richard
 Good, Lorne Colville
 Hawrysh, William Nester
 Hillmer, Melvyn Raymond
 Hodgson, Lorena Mary
 Humphrey, Mary Elizabeth
 Inglis, Malcolm Gordon
 Johnson, Garry Connors
 Kehoe, Theresa Marie - Honors in
 Psychology
 Kelley, William Robin
 Kelly, Sheila Margaret - Honors in
 Psychology
 Kempo, Olga
 Klassen, Frank
 Kryczka, Joseph Julius
 Laughren, Graham Irwin
 Lavenne, Dwayne Ormand
 Learmonth, Margaret McQueen
 Leigh, Leonard Herschel
 McClung, John Wesley
 McCorkell, Eric Carol
 McCue, Robert Junior - First Class
 Standing
 Macdonald, Elliot Webster Niblock
 McDonald, Sandra Joan
 McLennan, Roderick Alexander
 McGuire, Catherine - Honors in
 Psychology
 Maguire, Margaret Ellen
 Marvin, Evelyn May
 Massie, Carolyn Ann
 Mishukoff, Luba Constance
 Mursky, Gregory, B.A.
 Mustard, Ann Maureen
 Nay, Elizabeth Sofia
 Nichols, Francis Alvin - Honors in
 Psychology
 Paisley, Ross Walkerdine
 Paterson, Anne MacGregor
 Paterson, John Gilbert Alexander, B.Ed.
 Pedersen, Steven Alan - Honors in
 English
 Powell, Grace Lillian - Honors in Pol-
 itical Science

Powell, James Charles, B.Ed.
 Preshing, William Anthony, B.Ed. M.B.A.
 Rice, Edward Elliot
 Sampson, Islay Margaret
 Scott, Merle Ian, B.Sc.
 Smith, Ellen Carey
 Smith, Evelyn Elizabeth
 Smith, Mary Kirkpatrick
 Staples, Mildred Ivy - First Class Honors
 in Latin and French
 Stuart, Robert Roy
 Sutcliffe, Margaret Ann
 Sutherland, Margaret Isobel
 Trotman, Sidney Allen
 Trylich, Romana
 Wachowich, Allan Harvey Joseph
 Welsh, Gordon William
 Wozney, Margaret Linda-joy
 Zaruby, Eugene Basil

Recommended for the degree of Bachelor of Science:

Afaganis, Ernest John
 Anderson, Joseph Newton
 Ashford, David Ray
 Atkinson, Joseph George - First Class Honors
 in Chemistry
 Ayling, Robert Edward
 Bamber, Edward Wayne - First Class Honors
 in Geology
 Bauer, Kathleen Wilma
 Beckman, Marvin Dale
 Bennett, Barbara Ann - First Class Standing and
 First Class General Standing
 Berman, Saul
 Blakely, Patricia Anne
 Boag, David Archibald - Honors in Conservation
 Biology
 Bourgoin, Maurice Edmond
 Campbell, William Nellis
 Chetner, David Robert
 Cushley, Robert John
 Douchet, George Leon Abel
 Dzieciuch, Max Andrew
 Gooding, Ronald Harry
 Gowda, Earl Victor
 Groves, Harvey Hugh
 Harington, Charles Richard, B.A.
 Hayes, Marilyn Ann
 Hess, Fritz Karl - First Class Honors
 in Chemistry
 Hubert, Jacob Benjamin
 Jepson, Derek Rollinson
 Kinnear, Albert Roy
 Klassen, Frank
 Klassen, Waldy - First Class Standing and
 First Class General Standing

Klcovansky, John Edward - First Class Honors in Geology	Swindlehurst, Robert Norwood Taylor, Allan Levore - First Class Honors in Physics
Langstroth, George Forbes Otty - Honors in Physics	Thorp, Carol Jean Tollestrup, Allen Marion Vassar, Betty Lou Yee, Lannie King Young, Harry Gordon
Libin, Bernice Belle - First Class Standing and First Class General Standing	
Lieseemer, Kaye Doreen Litwin, Mary Ann McCalla, Dennis Robert - First Class Honors in Chemistry	
McMullen, Robert Michael Meheriuk, Mike Millican, Maida Eleanor Ruth Mohler, Leo Joseph Mooney, Sheila Mary Nicholson, Allan James Benjamin Odynsky, Allan William Panar, Manuel - First Class Honors in Chemistry	
Patrick, Lynn Allen Patton, June Lillian - First Class Standing and First Class General Standing	
Powlan, Ronald Organ Quon, Marjorie Lilon Reist, Elvin Grant Renne, Thomas - Honors in Physics Richmond, William Oliver - First Class Honors in Geology	
Riddell, James - First Class Honors in Mathematics	
Riske, Morley Edward Salter, Elizabeth, B.A. Schultz, Elmer Scraba, Evangeline Frances - Honors in Psychology	
Seifert, Vivian Grace Smith, Allan Gerald Smith, Judith Carol Smith, Russell, George - First Class Honors in Chemistry	
Soboren, Josephine - First Class Honors in Chemistry	
Sprague, John Harry Stevenson, Douglas Roy Stover, Eleanor Diane - First Class Honors in Chemistry	
Svarich, Nestor John	

May 8, 1957

The motion was carried.

Professor Blackley stated that the Revisions Committee, in going over the cards, discovered that many students had been incorrectly registered. These incorrect registrations had, in most cases, been approved by a Faculty adviser. Professor Blackley, on behalf of the Revisions Committee, asked that this be watched more closely in the future.

Special cases

(a) Saul Berman

Professor Folinsbee stated that because of very poor health, Mr. Berman, a student in Honors Geology, had been obliged to drop one course, Geology 54, in his third year. His record was otherwise quite good. Professor Folinsbee moved, seconded by Professor Stelck, that in view of Mr. Berman's ill health, he be granted the B.Sc. degree in Geology on the basis of work done to date. Professor Folinsbee said that the Revisions Committee endorsed this step and that Mr. Berman himself was in favor of it.

The motion was carried.

(b) Derek Rollinson Jepson

Professor Folinsbee stated that Mr. Jepson lacked Chemistry 54 of the Geology pattern for his B.Sc. degree. He had been here five years and had two extra courses to his credit: Physics 59 and Geology 54. Professor Folinsbee moved, seconded by Professor Stelck, that Council approve the substitution of Physics 59 and Geology 54 for Chemistry 54 in Mr. Jepson's program and recommend him to General Faculty Council for the degree of B.Sc.

Professor Gainer asked how many times Mr. Jepson had tried to complete Chemistry 54. Professor Folinsbee replied that he had tried and failed twice. He said that Mr. Jepson's background in Chemistry was very weak, dating from High School Chemistry.

The motion was carried.

May 8, 1957

(c) Robert Grant Roddie

In the fall of 1956, Mr. Roddie had completed fifteen courses toward the B.A. degree but lacked one second. At that time, he entered the University of Saskatchewan in the Faculty of Law. He was told that if he could secure a second class standing in Legal History at Saskatchewan, he would be recommended for the B.A. at Alberta in the spring of 1957. A transcript from Saskatchewan had arrived just before the meeting, indicating that Mr. Roddie had not obtained a second in Legal History, but that he had successfully completed his first year of Law. The question to be decided was whether or not Mr. Roddie should receive his B.A. from Alberta at Spring Convocation.

Professor Gainer asked why Legal History was chosen as the course in which Mr. Roddie must obtain a second. The Chairman replied that first year Law students at Alberta take a History course, and this seemed a comparable situation. He had already successfully completed History 57 and 58 so they couldn't be offered for credit.

Professor Thomas wondered if Mr. Roddie had written any supplemental examinations. The Chairman replied that he could still exercise supplemental privileges.

Professor Crosby wondered whether Mr. Roddie couldn't write a supplemental examination at Saskatchewan in Legal History to raise his mark to a second class. It was felt that the University of Saskatchewan might not approve of this action.

Dr. Cook suggested that this Council ask Mr. Roddie to complete the second year of Law and then grant him his B.A. on the basis similar to that of the requirements for the combined course in Alberta.

Professor Crosby then moved, seconded by Professor Cormack, that Mr. Roddie be granted his degree at Spring Convocation, 1957.

Professor Blackley stated that he supported Dr. Cook's recommendation and suggested that it be approved and that Mr. Roddie be so informed. He then moved, seconded by Professor Salter, an amendment to the original motion: that Mr. Roddie be informed that if he successfully completes the second year of Law at the University of Saskatchewan, the University of Alberta will grant him the B.A. degree.

Professor Davis asked how many second class standings were required in the B.A., LL.B. program before the B.A. could be granted. The Chairman stated that four were required. Professor Davis then made the observation that Mr. Roddie already had five.

Dr. Cook observed that the case under discussion represented an old problem. He said that students in the combined program who did not fulfil the requirements for entrance into first year Law would go to other Universities where they could be admitted, then return with other credits, thus dodging requirements for admission to the Faculty of Law at Alberta. Dr. Cook felt that this University should not make it so easy for these students.

The amendment to the motion was carried. This disposed of the original motion made by Professor Crosby.

The Chairman stated that Mr. Roddie still had the choice of writing a supplemental in the fall of 1957 and, if successful, of then obtaining his degree.

Graduands failing to meet the requirements for the B.A. and B.Sc.:

The list of graduands failing to meet the requirements for the degrees of B.A. and B.Sc. was then presented and discussed.

Failed to meet the requirements for the B.A. degree:

Ailley, Shemma Katherine	lacks one second
Bakay, Alex	lacks one second
Barton, Michael Cameron Ross	failed English 66
Borgstede, Wilfred Bernard	lacks one course and one second
Bower, James Edward	lacks two courses
Clague, John Sendall	lacks one course, did not write Zoo. 1
Collier, Richard Arthur	lacks one second
Fuchs, Greta Renate	lacks two seconds and failed Math. 45
Geary, Barbara Marion	lacks two seconds
Haugen, Desmond Obert	failed Physics 41 and lacks two seconds
Kosowan, Albert Orest	lacks two seconds
Langill, Frank Robert	lacks three seconds and one course, failed Psych. 40
Lyndon, Jack Lawrence	lacks two seconds
McArthur, Leonard William	lacks one second
McKillop, Duncan Lovell	lacks one second
Quimet, Jocelyn Hector	did not write his examinations
Patterson, Donald Edward	failed Biology 41, lacks one second
Peirce, Donald Andrew	lacks one second
Pixley, Myles Frederick	failed History 65, lacks one second
Symington, Gwendolyn Eileen	lacks one second

May 8, 1957

Tanner, Shirley Louise
Tompkins, Douglas James
Whitbread, Kathleen Derwyn

lacks one second
has three deferred finals in Law
needs one second and pass in History 55 and
Phys. Sc. 41, which two she has deferred
did not write Math. 46 and Biol. 41 finals

x Young, Henry Edway

Failed to meet requirements for the B.Sc. degree:

Baun, Ronald William
Benzon, Axel Loren
Cameron, Calvin Clifford
Chmilar, Tom Emil
Cloutier, Lucien Eugene
Dumka, Ernest William
Gibson, Brian Harry
Guertin, Stanley Oscar
Henson, Brian Edgar
Herunter, Herbert Edward
Kaminsky, Victor Paul
Kieller, Bernard John
Klatt, Viola Jean
Klymkowych, George
Loven, Galen Ernest
McKay, Murray Marshall
McKenzie, George Duncan
Middleton, David Staveley
Parker, Graham Richard
Patsula, Bernard Ronald
Rutherford, Ralph Allan

lacks one course and one second
lacks one course and two seconds
lacks one course, absent from Zoo. 53
lacks one course and one second
lacks two seconds
lacks two courses and one second
lacks one course and three seconds
lacks four seconds
lacks Chem. 54 and two seconds
lacks two courses and three seconds
lacks one course and three seconds
lacks two courses and one second
lacks Zoo. 53 and two seconds
lacks five courses; Category IV ?
lacks one and a half seconds
lacks one course and one second
lacks one second
lacks three courses, missed all exams
lacks one course and one second
lacks one course
lacks four courses and three seconds;
Category IV ?
lacks three seconds
lacks two courses and three seconds
lacks one course and two seconds
lacks one course
lacks one second
lacks one second
lacks three courses and two seconds
supp. in Phys. 43 and deferred finals
in Chem. 52 and 54
lacks one course and one second
lacks three courses
lacks three seconds
lacks one second

Shymanski, Victor
Siluch, John Alfred
Sonnenberg, Harald
Stangier, Kermit Gordon
xSteeves, Gordon B.
Strilchuk, Joachim Nicholas Michael
Tribe, Thomas Alexander

Villett, Lowell Sylvan
Webber, Patrick Neil
Woywitka, Richard Peter
Zahar, Edward William Roy

xZaruby, Eugene Basil
xStevenson, Douglas Roy

did not write Biol. 41
has fifteen courses, but dropped special
A option

Professor Moss inquired about the case of Mr. Eugene Basil Zaruby, who had failed to meet the requirements for the degree of B.A. because he had not written Biology 41. Professor Moss said that Mr. Zaruby had come to see him the night before this examination and had appeared quite ill. It was observed that Mr. Zaruby had filed a medical excuse for his absence from the Biology 41 final examination. He had fourteen courses toward the B.A., with six second class standings. His term

marks in Biology 41 were as follows: Christmas - 38, February - 70, making his average in term work a pass.

Professor Moss then moved, seconded by Professor Gainer, that Mr. Zaruby be granted aegrotat standing in Biology 41 and be recommended for the degree of B.A. The motion was carried.

x The case of Mr. Douglas Roy Stevenson was then discussed. Mr. Stevenson had apparently failed to write the final examination in Classics 50 and had not filed a medical excuse for his absence. Professor Folinsbee thought there was no reason, under the circumstances, why Council should give Mr. Stevenson any consideration.

Professor Kreisel inquired about Mr. George Klymkowych and Mr. Ralph Allan Rutherford, who had failed to meet the requirements for the B.Sc. degree, and after whose names appeared the words "Category IV". The Chairman explained that the records of these two students had been so poor in their third year that, if in first or second year, they would have been required to withdraw. Professor Folinsbee stated that Mr. Klymkowych had the ability to do well but was simply too lazy, and that Mr. Rutherford's ability was marginal. He was opposed to requiring these students to withdraw for a year but not to denial of any credit for the third year of each of their programs. It was agreed that the wish of Council was not to require these students to withdraw.

Professor Blackley then moved, seconded by Professor Harris, that these recommendations of the Revisions Committee be approved as amended. The motion was carried.

5. Report of the School of Household Economics (Professor Hazel McIntyre)

Professor McIntyre moved, seconded by Professor Duggan, that the following report of the School of Household Economics be approved:

x An administrative error in Mr. Stevenson's favor was discovered immediately following the meeting, and Mr. Stevenson was consequently included in the list of graduands to be recommended to General Faculty Council for their degrees.

Recommended for the degree of B.Sc. in Household Economics:

Elizabeth Ann Anderson
 Eleanor Joan Baker Bailey
 Arlene Thelma Ball
 Mary Agnes Baughn
 Joan Eleanor Bilan
 xAdele Marie Browne
 Elizabeth Louise Byers
 Marianne Checknita
 Janice Viola Ekman
 xSophie Heifetz
 xxHelen Gertrude Howard

Phyllis Mae Jorgensen
 Lorraine June Moshansky Kucey
 Evangeline Joyce Sarah Macdonald
 Patricia Sally Mascaluk
 Annamarie Loreace Nechkin
 Olga Porylo
 Shirley Eileen Redmond
 Noel Margaret Russill
 Jeannie Mutsuko Saruwatari
 Margaret Mary Whelihan

Recommended for the degree of Bachelor of Household Economics:

Valeria Aline Liss
 Blanche Marie Ross

Failed to meet the requirements for the degree of B.Sc. in H.Ec.:

Catherine Christou lacks three seconds

Failed to meet the requirements for the degree of Bachelor of Household Ec.:

Kathleen Lenore Green 1 failure

xx 1st class general
 x 1st class

The motion was carried.

6. Report of the School of Commerce (Professor B.A. Lindberg)

Professor Lindberg moved, seconded by Professor Goodale, that the following report of the School of Commerce be approved:

Recommended for the degree of Bachelor of Commerce:

Michael Alfred Denega
 George Jesse Eykelbosh
 Eldon Charles Godfrey
 Ronald Stewart Hayes
 Stewart Gordon Huff
 Orest Humeniuk
 Donald Selwyn Kerr
 Clayton Joseph Kobie
 Bernadine Kuzmic
 Harry William Laslop
 Dennis Peter Lawson

Bernard Henri Lemay
 Jack Hastings McMahon
 Carlisle-Jean Martin
 James Sidney Pritchard
 Charles Stewart Robertson
 Robert Andrew Robinson
 Harry George Schaefer
 Jean Anne Shultz
 Alexander Tywoniuk
 Ronald George Winkelaar
 Patricia Sylvia Workun

Failed to meet the requirements for the degree of Bachelor of Commerce:

Ronald Lorne Edwards lacks two seconds
 Fred Hugh McClelland lacks one second

Gary Stewart Onstad
Miles Watson Palmer
Norman Gerrit Riezebos
Joseph Jean Toupin
Beverlee Joan Whitaker

one failure
lacks three seconds, one failure
lacks two seconds, two failures
lacks two seconds
lacks one second

The motion was carried.

7. Report of the Department of Fine Arts re Diploma students (Professor H. G. Glyde)

Professor Glyde moved, seconded by Professor Taylor, that the following report of the Department of Fine Arts be approved:

Recommended for the Senior Diploma in Art, with first class standing:

Miss Colleen Anderson
Miss Joan Byrne

Recommended for the Intermediate Diploma in Art, with second class standing:

Anna Mae Barnes
Frederick Claude Blower
Gene Leta Eisert
Lorna Karen Lyle
Barbara Anne Wilson

Professor Glyde stated that Miss Anderson and Miss Byrne were the first to complete the four-year diploma program in Art.

The motion was carried.

8. Authority for revision of examination results for summer session and fall supplementals

It was moved by Professor Kreisel, seconded by Professor Collins, that the Dean be empowered to appoint a special Revisions Committee from the Council to deal with summer session results, and that the regular Revisions Committee be empowered to deal with the results of supplemental examinations in this Faculty. The motion was carried.

9. Curriculum for Lethbridge Junior College

The Chairman reported on the courses to be offered at the Lethbridge Junior College and the instructors who would offer them. He said that approval by this Council of the following courses and their instructors should be recorded:

English 2 - Mrs. Nora Sinclair
 French 2 - Dr. Isabel Wilkins
 Economics 1 - Mr. F. A. Rudd
 History 8 - Mr. W. J. Cousins
 History 10 - Mr. W. J. Cousins
 Psychology 40 - Mr. W. L. Thompson

Mathematics 1 - Mr. M. T. Sillito
 Physics 40 - Mr. M. T. Sillito
 Physics 41 - Mr. M. T. Sillito
 Chemistry 40 - Miss E. F. Cook (?)
 Zoology 1 - Mr. J. F. Badner (?)

Professor Smith moved, seconded by Professor Whyte, that this proposed curriculum and list of instructors be approved.

Professor Hardy expressed regret that only one foreign language was to be offered. He felt that Latin might also have been included.

Professor Harrold thought that there was danger of the standards of the University not being kept up unless it was insisted that good laboratory and library facilities be provided. He observed that the University had not yet inspected them. The Chairman assured Council that the facilities in Lethbridge would be inspected. He then suggested that the following statement be attached as a rider to the motion:

" . . . subject to satisfactory laboratory and library facilities."

The motion now read "That this proposed curriculum and list of instructors be approved, subject to satisfactory laboratory and library facilities."

The motion was carried.

10. Completion of the B.Com. degree by Evening Credit Program only

Professor Lindberg stated that the School of Commerce had been considering for some time the possibility of offering, through the Evening Credit Program only, courses leading to the degree of B.Com. This proposition had been discussed at the last meeting of the Evening Credit Program Committee. Professor Lindberg quoted Dr. Gilles as saying that it would be possible to offer the B.Com. degree by Evening Credit Program only, but that the Evening Credit Program Committee hadn't the authority to approve this step. Consequently, Mr. Lindberg said, the Council of the School of Commerce was presenting to the Council of the Faculty of Arts and Science the following resolution, which had been passed at the meeting of the School:

- (1) That the Council of the School of Commerce hereby go on record as expressing its desire to make it possible for evening students, pursuing an approved course of studies, to obtain a B.Com. degree upon successful completion of such studies,

(2) That the Council of the School of Commerce urges the Council of the Faculty of Arts and Science to approve this (the above) resolution at its meeting on Wednesday, 8 May, and the Council likewise urges the General Faculty Council to approve this (the above) resolution at its meeting on Friday, 10 May, and

(3) That upon the adoption of resolutions (1) and (2) by the Council of the Faculty of Arts and Science and by the General Faculty Council at their meetings on 8 May and 10 May, respectively, the General Faculty Council be asked to instruct the Director of the Evening Credit Program to incorporate the information contained in resolutions (1) and (2) in the publicity and advertising materials of the Evening Credit Program this year. In addition, the statement should appear that the offering of this program depends upon:

- (a) the availability of qualified staff, and
- (b) sufficient enrollment in each proposed course.

It was moved by Professor Lindberg and seconded by Professor Goodale, that the above resolution be endorsed by the Council of the Faculty of Arts and Science.

The Chairman then read the regulation in the general calendar pertaining to the matter under discussion:

"Students proceeding to a Bachelor's degree in the Faculty of Arts and Science will be required to attend at least one regular academic session, September to April. Exceptions may be made to this rule in the cases of teachers who have had at least two years' experience subsequent to receiving their permanent certificates."

Professor Jones stated that at the last meeting of the Evening Credit Program Committee Dr. Gilles had pointed out that there were many sides to this question, one of the most important being that qualified instructors for these courses might be difficult to find. Professor Jones felt approval of the School of Commerce's resolution would contradict the resolution approved by the Council of the Faculty of Arts and Science at the meeting of April 1, 1957, which read as follows:

"That this Council deplores the offering of senior courses in outlying centres."

Professor Jones thought the University might soon reach the position of granting

May 8, 1957

degrees when few, if any, courses had been given by regular members of the staff.

Professor Harrold suggested that a special committee be set up to investigate the matter under discussion with great care and present a report in approximately a year's time. The Chairman stated that the matter had already been investigated, and that a program had been worked out which would, after a period of years, make it possible for a student to complete the requirements for the B.Com. He said, however, that the regulation in the calendar forbidding students to complete requirements for a degree by Summer Session only might be regarded as applying to evening students also, but it was not intended to apply. He stated that the main object of the motion under consideration was to remove that barrier.

Professor Lindberg felt that this step was merely an extension of the courses already being offered and further stated that the program might be offered in Edmonton only. He said that the School of Commerce had no intention of going over the heads of the Evening Credit Program Committee nor of lowering the standards of the University. The School of Commerce merely desired to give working people a chance to improve themselves. He felt that the only way to determine the feasibility of such a program was to start it. Professor Lindberg also observed that the introduction of this question was not sudden, stating that it had been presented about a year ago.

Professor Ryan thought that the questions involved were those of extra staff and money, and that approval or disapproval of this program should be based on these two points. He felt that if programs of this kind were eventually to be introduced into the Evening Credit Program, they should be organized in such a way that there would be special evening division instructors who would not teach during the day.

Professor Smith thought the pressure on the students should be considered. He observed that the statement in the calendar had been placed there for their protection.

The Chairman wondered if Council should deny the Evening Credit Program

Committee the right to allow students to proceed toward the degree. He thought the choice might be left up to the students, and when they had taken a few evening courses, they might be enthusiastic enough to attend a full session.

Professor Davy wondered why the regulations limiting Summer Session registrations did not apply to evening courses also, since he felt that the evening program was just as heavy as the summer session program. Professor Salter suggested that the number of evening courses a student could take in one year be limited to two.

Professor Lindberg thought that more could be expected from evening students. He felt they might be mature enough to handle such a program. He also said that this kind of program would not be easy for them since it would take from six to eight years to complete.

Professor Jones, disagreeing with a previous statement, said that the "trying out" of this program to determine its feasibility had already been done, and it had been found that qualified staff was not available. Professor Jones said further that he was not opposed to the offering of this program but was opposed to announcing it for next winter.

Professor Salter expressed the opinion that an Evening Credit Program was only "second best", and that this fact could not be overlooked.

Professor Lindberg then wondered how the University could satisfy the needs of people who couldn't attend the University in Edmonton. Professor Salter thought it would not be impossible for them to spend at least one academic year at the University since this procedure had seemed to work so far.

Professor Horton observed that at Carleton College in Ottawa an evening program existed which seemed to be very well organized, with a good staff who were not in any way inferior to the rest of the Carleton College staff.

Professor Garland thought that if there existed such a demand for people with higher education, the industries employing these people might encourage them themselves in such ways as offering scholarships for University study.

Professor Bhatia observed that the University of London offered two kinds

of degrees: the regular degree and the external degree. Professor Kreisel mentioned Birkbeck College as an example of a college which offered evening courses only.

Professor Gainer felt that the time of taking these courses should be left up to the students themselves and that the important question was the value of requiring them to be in residence for a year.

The motion was then put to a vote and was defeated by a count of 26 to 12. The Chairman then asked Professor Lindberg if the School of Commerce wished to submit its resolution in an amended form. Professor Lindberg replied that he accepted Council's decision and that he thought no more could be said on the matter at present.

Professor Jones said he would not oppose a motion made by the School of Commerce asking the Evening Credit Program Committee to take steps toward establishing this program and providing a special staff for it. He stated that if this sort of motion were introduced into Arts Faculty Council, he would be happy to approve it.

11. Motion from Honors Committee

It was moved by Professor Smith and seconded by Professor Grayson-Smith, that the Council of the Faculty of Arts and Science recommend to General Faculty Council that the Spring meetings be delayed for three days to give more time for the marking of papers and the tabulating and scrutinizing of results.

The Chairman observed that this might involve a change in the academic calendar and also in the time of Convocation.

The motion was carried.

12. British Association for the Advancement of Science

The Chairman announced that the 119th annual meeting of the British Association for the Advancement of Science would be held this year in Dublin from September 4 to 11, 1957 and that applications to attend were available in the Dean's office.

13. Reference to the retirement of Dr. Walker and Dr. Moss

The Chairman asked permission to record in the minutes the following

expression of appreciation by this Council of the services of two retiring members:

"Professor Osman James Walker graduated from the University of Saskatchewan and secured the degrees of A.M. from Harvard and Ph.D. from McGill before joining the staff of the University of Alberta in 1920 in the Department of Chemistry, of which he has been Head since 1942. Since 1952, he has carried the additional burdens of the Director of the School of Graduate Studies. His teaching and administrative burdens have been heavy but he has always carried them cheerfully and competently.

Dr. Walker's work in research in Chemistry has been recognized by Fellowships in the Chemical Institute of Canada and the Royal Society of Canada. Last year he was further honored by being elected to the position of Vice-President of the Chemical Institute of Canada and this year he will be installed as President.

Professor Ezra Henry Moss, a native of Ontario, served with distinction in World War I, winning the Military Medal for gallantry in the field. After securing the degrees of B.A. and M.A. from the University of Toronto, he joined the staff of the University of Alberta as Lecturer in Botany in 1921. In the year 1924-25 he returned to Toronto to complete the requirements for the Ph.D. and then returned to Alberta where he has served without interruption since then.

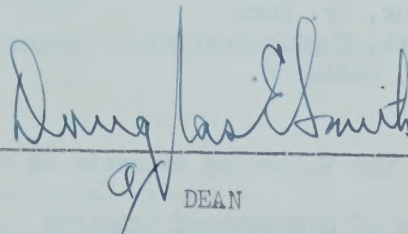
Dr. Moss has made substantial contributions to research in the flora of this province and has been honored by Fellowships in the American Association for the Advancement of Science and the Royal Society of Canada.

His contributions to the life and work of this Council and this University have been many, and they have always been marked with the care and competence which we have come to associate with everything he does.

It would be hard to find two better colleagues than O. J. Walker and E. H. Moss and this Council wishes to record its appreciation for their long and faithful service and to express its best wishes for their future years."

The inclusion in the minutes of this expression of appreciation was endorsed by the strong applause of members of Council.

The meeting adjourned at 4:30 p.m.


DEAN

Minutes of the 470th meeting of the Council of the Faculty of Arts and Science, held on Monday, October 7, 1957, at 4:30 p.m. in the Senate Chamber.

Present were: Acting Dean Smith in the Chair; Professors Allen, Bhatia, Blackley, Brodie, Collier, Cormack, Crighton, Crosby, Davis, Elder, Folinsbee, Fostvedt, Grayson-Smith, Gunning, Gupta, Hanson, Hardy, Hocking, Horton, Jacka, Keeping, Kreisel, Lindberg, McIntyre, Mardiros, May, Moser, Newbound, Peacock, Phibbs, Ryan, Scott, Spearman, Stelck, Thomas, Trainor, Von Richthofen, Wallace, Whyte, Wonders, Wyman, and Mr. Hawes, the Assistant to the Registrar.

The Chairman welcomed the new members of the Faculty Council.

1. Minutes of the meeting of May 8, 1957

It was moved by Professor Kreisel and seconded by Professor Wyman, that the minutes be approved as read. The motion was carried.

2. Report of the Summer Session Revisions Committee (Dr. S.G. Davis)

It was moved by Dr. Davis and seconded by Dr. Blackley, that the report of the Summer Session Revisions Committee be adopted as follows:

The following students be recommended to the General Faculty Council for the degree of Bachelor of Arts:

Blewett, Alan George
Bower, James Edward
Connors, Nora (Sr. M. Lelia)
Cummins, Sr. Nora
Chappel, Sheila Harriet
Hewko, Walter M.

Noble, Harry Johnstone
Piard, Andre Robert
Pylypow, Henry
Rudy, Thora Beatrice
Salt, M. Cecilia
Stead, John Gilchrist
Tetreau, Theodore Albert

13

That the following students be recommended to General Faculty Council for the degree of Bachelor of Science:

Carefoot, John Russel
Hoskyn, Frank William

Johnson, Floyd Edison

3

That the following students be recommended to General Faculty Council for the degree of Bachelor of Science in Household Economics:

Harapniuk, Florence Rose
Hildebrand, Mary Agatha

Scherban, Sylvia Elsie
Zawadiuk, Edith Roberta. 7

That the following changes were made in the marks given to students attending the 1957 Summer Session:

Hrynew, John M.
MacDonald, Donald Alexander
Clark, John William
Powell, Fred William

Mark in History 64 lowered from 47 to 45
Mark in History 60 lowered from 47 to 45
Mark in Mathematics 57 raised from 48 to 50
Mark in Chemistry 58 raised from 63 to 65.

The motion was carried.

3. Report of the Revisions Committee on cases arising out of supplemental and deferred examinations (Dr. F.D. Blackley).

It was moved by Professor Blackley and seconded by Professor Kreisel that the report of this Revisions Committee be adopted as follows:

That the following students be recommended to General Faculty Council for the degree of Bachelor of Arts:

Ailley, Shemma Katherine
Collier, Richard Arthur
Fuchs, Greta Renate
Kosowan, Albert Orest
MacDonald, Lorna Jean
McKillop, Duncan Lovell

Patterson, Donald Edward
Peirce, Donald Andrew
Whitbread, Kathleen Derwyn (nee McLaughlin)
Symington, Gwendolyn Eileen
Syska, Eugene Stan
Tompkins, Douglas James 25

Professor Blackley informed the Council that Mr. Leonard William McArthur also had qualified for the degree of Bachelor of Arts by offering for credit a course in Church History taken at St. Stephens College, and asked that he be included in the list of graduands. 26

That the following students be recommended to General Faculty Council for the degree of Bachelor of Science:

Cameron, Calvin Clifford
Kraus, Heinz Josef Andreas
Patsula, Bernard Ronald

Stangier, Kermit Gordon
Strilchuk, Joachim Nicholas 12

That the following student be recommended to General Faculty Council for the degree of Bachelor of Science in Household Economics:

Christou, Chris. 13

That the following student be recommended to General Faculty Council for the degree of Bachelor of ~~Science in~~ Household Economics:

Green, Kathleen Lenore 27

Special Case:

Dr. Blackley brought forward the petition of Mrs. J.B. Collip for the degree of B.Sc. Mrs. Collip first registered in 1928 and completed the requirements for her degree with the exception of one second class standing. She has credit in two extra subjects and three years nursing experience. In one course that is counted in her program, Mrs. Collip obtained the mark of 63.

It was moved by Dr. Blackley and seconded by Dr. Collier, that Mrs. Collip be granted her degree, but without any raising of her marks, as an "act of grace". The motion was carried.

Dr. Blackley informed Council of the following changes in marks obtained by students in supplemental or deferred examinations:

Buahene, Kwame	Mark in Biochemistry 50 raised from 63 to 65
Duguid, Mary Ellen	Mark in Philosophy 52 raised from 48 to 50
Shles, Doris	Mark in French 50 lowered from 46 to 45
McCowan, R.N.	Mark in Geology 51 lowered from 47 to 45
Ferguson, J.W.	Mark in Mathematics 40 raised from 49 to 50
Cole, K.P.	Mark in Geology 51 lowered from 47 to 45

The motion to adopt the report was carried.

4. Report of the School of Commerce on graduating students (Professor Lindberg)

It was moved by Professor Lindberg and seconded by Professor Wallace, that the report of the School of Commerce be adopted as follows, subject to the approval of the report by the Council of the School itself, since that

Council had yet to meet:

That the following students be recommended to the General Faculty Council for the degree of Bachelor of Commerce:

MacIntosh, Norman Belding
McClelland, Fred Hugh

Onstad, Gary Stewart
Palmer, Miles Watson

The motion was carried.

5. Motion on cases arising out of special supplemental examinations.

It was moved by Professor Thomas and seconded by Professor Wonders, that the Revisions Committee be empowered to refer directly to General Faculty Council those students who may become eligible for graduation on the basis of deferred supplemental examinations, since the Arts and Science Faculty Council will not meet again until the first Monday in November.

The motion was carried.

6. Changes in courses.

(a) Department of Chemistry.

The Chemistry Department requested the following course changes be approved and made retroactive to 1 September, 1957:

That Chemistry 103 be dropped and replaced by Chemistry 104;
That Chemistry 107 be suspended and replaced by Chemistry 115.

It was explained that Chemistry 104 is to be a course in advanced physical chemistry, covering the kinetic theory of gases, quantum mechanics, statistical mechanics, chemical kinetics and photo-chemistry. The new course heralds an attempt to build up graduate school offerings in the department of chemistry. Such changes as are made, Council was assured, will be gradual, and graduate students from other departments presently taking chemistry courses will not suffer as a result of them.

There was some discussion as to the most suitable mathematical background for Chemistry 104. It was felt by some that Mathematics 40 did not contain enough differential equations to be suitable as a pre-requisite; Mathematics 57 might be a more suitable course. The Chemistry Department felt that the new course was not for specialists and that the mathematical background necessary to take it should not be too advanced. It was agreed that the Chemistry department itself should determine if a student wishing to take Chemistry 104 had sufficient mathematical background.

The Chemistry Department noted that Chemistry 115 will be a course on Thermodynamics and the basic graduate course in Chemistry. Chemistry 107 (Surface Chemistry) will remain on the Calendar but will not be offered in the next few years.

It was moved by Dr. Davis and seconded by Dr. Gunning, that Chemistry 103 be removed from the Calendar and the following new courses be approved, retroactive to September 1, 1957:

Chemistry 104. Advanced Physical Chemistry (3-0; 3-0)

H.E. Gunning
Kinetic theory of gases, quantum mechanics, statistical mechanics, chemical kinetics and photo-chemistry.

Chemistry 115. Thermodynamics (3-0; 3-0)

J.L. Morrison.

Chemistry 111 will be dropped from the calendar.

The motion was carried.

(b) Department of Classics

Council's approval was sought for the introduction of Latin 108, a reading course on Tacitus combined with a study of the history and literature of the Early Empire. This course was designed for both honor

and graduate students, especially for two master's degree candidates presently studying under the Department of Classics.

It was moved by Professor Hardy and seconded by Professor May, that the new course be approved as follows:

Latin 108. Tacitus

(3-0; 360)

The reading of Tacitus, Annales, Books I-VI, together with selections from Tacitus, Historiae, to be combined with a study of the history and literature of the Early Empire.
For Graduate and Honors students only.

The motion was carried.

(c) Department of Physics

Council's approval was sought for two new courses, Physics 110 and Physics 112. These courses, it was explained, were for graduate students but the department wished that they be added to the calendar. Physics 110 will be used for graduate student programs for this year only. Physics 112 will be given to one student only this year but is to be made later a permanent offering of the department.

It was moved by Professor Grayson-Smith and seconded by Professor Scott, that Council approve the following new courses for the Department of Physics: Physics 110: a combined course in Electromagnetic Theory, Statistical Mechanics and Group Theory, three hours per week.

Physics 112: a course in Radiation Physics, of three hours per week. It is to be a reading course only.

The motion was carried.

72. Appointments to committees.

(a) The Committee on Junior Colleges

Moved by Dean Smith and seconded by Professor Hanson, that the following members be appointed to the Committee on Junior Colleges:

Professor Hardy, Department of Classics.
Professor Newbound, Department of Physics.

The motion was carried.

(b) Honours Committee

It was moved by Dean Smith and seconded by Professor Davis,
that the following members be appointed to the Honours Committee:

Professor Brodie, Department of Botany, vice Dr. Moss, retired head
of the department of Botany.

Professor Gunning, Department of Chemistry, vice Dr. Walker, retired
head of the Department of Chemistry.

The motion was carried.

(c) Revisions Committee

It was moved by Dean Smith and seconded by Professor Newbound,
that the following members be appointed to the Revisions Committee:

Professor Kreisel, Department of English, for three years, vice

Professor Gainer, Department of Political Economy.

Professor Jacka, Department of Mathematics, for three years, vice

Professor Harris, Department of Chemistry.

Professor Blackley, Department of History, to serve as chairman of
the Revisions Committee for one year.

The Dean noted that while neither he nor Professor Blackley felt that an
administrator should act as the chairman of an advisory committee, Professor
Blackley was the only member of the revisions committee with sufficient experience
to hold the position.

The motion was carried.

8.10. Petitions for a four-course final year program

Miss Patricia Sawka, a third year student in the Special B.Sc.
program, petitioned for a four-course final year program under the provisions
outlined on page 41 of the Arts and Science separate. Miss Sawka's average

in the second year was 72%.

It was moved by Professor Coallier and seconded by Dr. Scott, that her petition be granted.

The motion was carried.

Miss Patricia Cantin, a third year student in the Special B.Sc. program also petitioned Council for a four course final year program under the same provisions as Miss Sawka. Miss Cantin's average in her second year was 69.6%.

It was moved by Professor Keeping and seconded by Professor Davis that her petition be refused on the grounds that the merits of her petition were less noticeable than those of Miss Sawka's.

The motion was carried.

The petitions provoked a discussion on the validity of the four-course program concession. The purpose of the concession, Council was informed, was to enable good students to read more widely on their remaining subjects than would otherwise be possible. Some members of Council doubted the wisdom of this and feared that students might request the concession simply to obtain a lighter year. Finally, Council decided to refer the whole question to the Patterns Committee.

The Chairman announced that he wished to refer several other matters to the Patterns Committee, such as the regulations now covering the B.Sc. after the B.A. and the B.A. after the B.Sc.

9.N. Students selected for the Brussels International Exhibition.

Council was asked to define its position on successful applicants for posts in the Canadian pavilion at the Brussels International Exhibition in 1958. Such students would lose a month of the 1957-58 session and, if they returned to the university, a month of the 1958-59 session. Their absence would entail either early examinations or aegrotat standing. If graduating, such students as were successful posed a problem of more importance than those

that were not, since their degrees would be involved.

There was considerable discussion on this question. Some members of Council favoured aegrotat standings and degrees, even if students would be barred thereby from winning prizes and possess, for graduate work, degrees of doubtful value. Others suggested that, since the number of students would be small, early examinations might be set for any successful candidates.

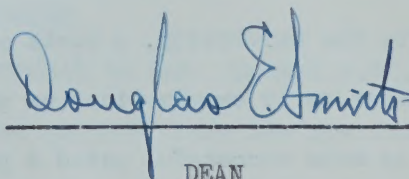
It was moved by Professor Greene and seconded by Professor Thomas, that Council approve, in principle, that students in Arts and Science might apply for the positions at the Exhibition and that what might be done for them be left for future consideration when the names of the individuals concerned were known.

The motion was carried.

The Chairman brought to the attention of Council a list of available scholarships and fellowships that might be of interest to members of Council. Details, he said, could be obtained from the Arts and Science office.

The Chairman requested that all departments submit notice of desired calendar changes for next year at an early date, the November meeting of Council if possible.

The meeting adjourned at 5:45 p.m.


DEAN

DIPLOMA IN ART

AIMS:

program

The object of the ~~XXXXXX~~ is to provide instruction in art for those wishing to take up Fine Arts, Design or Graphic Arts as a career: for those whose occupation has an artistic bias, and for those interested in the cultural value of art. There are both full-time day and evening courses, but part-time courses may be arranged for adults and others wishing to increase their knowledge either in drawing and painting, design or history and appreciation.

ADMISSION:

The academic requirements for admission are as follows:

- (1) English Language 30
- (2) Social Studies 30
- (3) Mathematics 30
- (4) French 30 or German 30 or Latin 30
- (5 and 6) Two of the following:
 - a. Science 32
 - b. Science 31
 - c. Science 30
 - d. A second Grade XII language

Before admission to the full-time course, candidates desiring this instruction as a means to securing a diploma in drawing and painting, should be prepared to sit for the following special examination in art:

- (1) Drawing (3 hours). Candidates may draw from the antique or from a clothed figure or from a still-life group of their choice.
- (2) Composition (3 hours)
- (3) Essay (2 hours)
- (4) The presentation of at least 6 works, to include examples executed both during class hours at the candidate's previous school, and in the candidates own time.

For the Preliminary Examination the candidate may sit in any of the towns where there is an Extension Community Art Class, or elsewhere under the supervision of an authorized invigilator.

Credit will be given for work done in other Art Schools on the presentation of a satisfactory certificate.

OUTLINE OF PROPOSED COURSE

FIRST YEAR

FUNDAMENTALS OF DRAWING AND PAINTING:

- | | |
|---------------------------------------|-----------------------------------|
| (1) Costume life drawing and Portrait | 3 hours |
| (2) Life drawing I | 3 hours |
| (3) Drawing from memory and knowledge | 3 hours |
| (4) Still life - Plant life) | |
| (5) Interiors - Architectural forms) | <u>4 hours</u> ... Total 13 hours |

PRINCIPLES OF DESIGN AND COMPOSITION:

- | | | |
|-------------------------------------|---|----------------------------------|
| (1) Study of Historic Ornament |) | |
| (2) Costume - Abstract forms |) | |
| (3) Elements of planning patterns |) | 5 hours |
| (4) Colour - Tone Values - Textures |) | |
| (5) Museum study | | <u>2 hours</u> ... Total 7 hours |

SCIENCE:

- | | |
|----------------------|----------------------------------|
| (1) Theory of Colour | 3 hours |
| (2) Anatomy | <u>2 hours</u> ... Total 5 hours |

Total hours per week ... 25

FINAL EXAMINATION:

- | | |
|---------------------------------|--|
| (1) Life Drawing - 3 hrs. | (2) Drawing from Memory and Knowledge - 2 hrs. |
| (3) Still-life painting- 3 hrs. | (4) Design and Composition - 6 hrs. |
| (5) Theory of colour - 3 hrs. | (6) Anatomy - 3 hrs. |

SECOND YEAR

-2-

Subject to satisfactory completion of the preceding course, the student normally proceeds to more advanced study:

- | | |
|--|---------------|
| (1) Composition and Design ... a continuation of Principles of Design and Composition and Drawing from Memory and Knowledge as presented in the first year | 5 hours |
| (2) Life Drawing and Portrait II | 3 hours |
| (3) Life Painting I | 6 hours |
| (4) History and Appreciation | 3 hours |
| (5) Still-life | 3 hours |
| (6) Theory of Colour | 3 hours |
| (7) Criticism (Home Composition) | <u>1 hour</u> |

24 hours per week

FINAL EXAMINATION:

- | | |
|----------------------------|---------|
| (1) Composition and Design | 6 hours |
| (2) Life Drawing | 3 hours |
| (3) Still-life Painting | 6 hours |
| (4) History | 3 hours |
| (5) Theory of Colour | 3 hours |

THIRD YEAR

After satisfactorily completing the studies of the second year the student may proceed to specialized study with a course comprising the first three of the following and any two optional choices also from the following:

- | | |
|---|----------|
| (1) Composition and Painting Techniques, Ed. 532 | 5 hours |
| (2) Art History and Appreciation, Art 52:
- Survey of art in Europe from the Renaissance to modern times | 3 hours |
| (3) Life Drawing III | 6 hours |
| (4) Life Painting II | 10 hours |
| (5) Illustration and Book Decoration | 5 hours |
| (6) Mural and Decorative Painting | 8 hours |
| (7) Landscape Painting - Banff School (Summer Ses) | 25 hours |

FINAL EXAMINATION:

- | | |
|--------------------------------------|----------|
| (1) Composition | 6 hours |
| (2) Art History | 3 hours |
| (3) Life Drawing | 3 hours |
| (4) Life Painting | 10 hours |
| (5) Illustration and Book Decoration | 6 hours |
| (6) Mural and Decorative Painting | 12 hours |

FOURTH YEAR

The first three of the following subjects are to be considered compulsory to students taking this course. Four subjects in all are required.

- | | |
|---|----------|
| (1) Techniques | 6 hours |
| (2) Pictorial composition | 5 hours |
| (3) Life Drawing IV | 8 hours |
| (4) Life Painting III | 10 hours |
| (5) Illustration and Book Decoration | 8 hours |
| (6) Mural Painting and Decorative Painting | 10 hours |
| (7) Landscape Painting - Banff School (Sum.Session) | 25 hours |

DIPLOMAS:

For DIPLOMA IN PAINTING candidates must submit:

- (a) a series of 6 drawings of the human figure
- (b) 2 paintings of the figure
- (c) 2 portraits, 2 compositions (figure) and 2 landscapes

Final Examination in Painting-

A painting project for which 6 days are allowed

For DIPLOMA IN MURAL PAINTING AND DECORATIVE PAINTING candidates must submit:

- (a) 6 drawings from life
- (b) 2 compositions in any media
- (c) 2 panels in tempera, mixed technique or oil
- (d) portrait in tempera

Final Examination in Mural and Decorative Painting-

A mural and decorative painting project for which 6 days are allowed.

For DIPLOMA IN DESIGN AND ILLUSTRATION candidates must submit:

- (a) 6 drawings from life
- (b) 6 illustrations - 2 in colour, 4 in black and white
- (c) 2 designs for book jackets
- (d) 2 designs for book covers

Final Examination in Design and Illustration-

A design and illustration project for which 6 days are allowed.

Candidates may present themselves for examination in order to qualify for one of the preceding diplomas upon satisfactory completion of their final year's work. Candidates will not be approved unless they have shown a competent knowledge of the foregoing subjects.

If a student has failed to satisfy the examiners in his diploma test he may be recommended to present himself for re-examination at a subsequent date which will be determined by the examiners.

Diagonal Course in Air,